zinc chloride solution 20%

Fluid Type: Simple Newtonian Fluid
Fluid Name: zinc chloride solution 20%
Alternative Names: []
Formula: ZnCl
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

xenon

Fluid Type: Pure Newtonian Fluid
Fluid Name: xenon
Alternative Names: []
Formula: Xe
Critical Pressure: 5840000 Pa
Critical Temperature: 289,7 K
Molar Critical Volume: 118,4 cm3/mol
Melting Point: 161,3 K
Boiling Point: 165 K
Molecular Weight: 131,3
Acentric Factor: 0,008
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

wet methane 1%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet methane 1%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 7.5%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 7.5%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 5%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 5%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 4%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 4%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 3%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 3%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 25%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 25%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 20%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 20%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 2%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 2%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 15%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 15%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 10%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 10%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

wet air 1%

Fluid Type: Mixture defined as mass percent
Fluid Name: wet air 1%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

water

Fluid Type: IAPWS Relationships Apply
Fluid Name: water
Alternative Names: [steam]
Formula: H2O
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [IAPWS Relationship]
Liquid Specific Heat Definition: [IAPWS Relationship]
Liquid Thermal Conductivity Definition: [IAPWS Relationship]
Liquid Viscosity Definition: [IAPWS Relationship]
Vapor Pressure Definition: [IAPWS Relationship]
Gas Density Definition: [IAPWS Relationship]
Gas Specific Heat Definition: [IAPWS Relationship]
Gas Thermal Conductivity Definition: [IAPWS Relationship]
Gas Viscosity Definition: [IAPWS Relationship]
Two-Phase Properties: [Data Provided]

wash syrup 76bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: wash syrup 76bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Wafer-Ox 5

Fluid Type: Simple Newtonian Fluid
Fluid Name: Wafer-Ox 5
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Waferox

Fluid Type: Simple Newtonian Fluid
Fluid Name: Waferox
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

vinylidene chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinylidene chloride
Alternative Names: [1,1-dichloroethylene]
Formula: C2H2Cl2
Critical Pressure: 4680000 Pa
Critical Temperature: 489 K
Molar Critical Volume: 219 cm3/mol
Melting Point: 156 K
Boiling Point: 304,7 K
Molecular Weight: 96,9438
Acentric Factor: 0,179
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

vinylidene difluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinylidene difluoride
Alternative Names: [1,1-difluroethylene]
Formula: C2H2F2
Critical Pressure: 4460000 Pa
Critical Temperature: 302,9 K
Molar Critical Volume: 154,1 cm3/mol
Melting Point: 129 K
Boiling Point: 187,5 K
Molecular Weight: 64,035
Acentric Factor: 0,14
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

vinylcyclohexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinylcyclohexene
Alternative Names: [4-ethenylcyclohexene, 4-vinyl-1-cyclohexene, 4-vinylcyclohexene]
Formula: C8H12
Critical Pressure: 3475447,5 Pa
Critical Temperature: 599 K
Molar Critical Volume: 379 cm3/mol
Melting Point: 164 K
Boiling Point: 401 K
Molecular Weight: 108,183
Acentric Factor: 0,329
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

vinyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinyl chloride
Alternative Names: [chloroethylene]
Formula: C2H3Cl
Critical Pressure: 5150000 Pa
Critical Temperature: 425 K
Molar Critical Volume: 169 cm3/mol
Melting Point: 119,4 K
Boiling Point: 259,8 K
Molecular Weight: 62,499
Acentric Factor: 0,122
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

vinyl formate

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinyl formate
Alternative Names: []
Formula: C3H4O2
Critical Pressure: 5770000 Pa
Critical Temperature: 475 K
Molar Critical Volume: 210 cm3/mol
Melting Point: 215,5 K
Boiling Point: 319,6 K
Molecular Weight: 72,0634
Acentric Factor: 0,55
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

vinyl fluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinyl fluoride
Alternative Names: [fluoroethylene]
Formula: C2H3F
Critical Pressure: 5240000 Pa
Critical Temperature: 327,9 K
Molar Critical Volume: 144 cm3/mol
Melting Point: 112,6 K
Boiling Point: 201 K
Molecular Weight: 46,0441
Acentric Factor: 0,157
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

vinyl ethyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinyl ethyl ether
Alternative Names: [ethoxyethene, EVE]
Formula: C4H8O
Critical Pressure: 4070000 Pa
Critical Temperature: 475 K
Molar Critical Volume: 230 cm3/mol
Melting Point: 157,9 K
Boiling Point: 308,7 K
Molecular Weight: 72,107
Acentric Factor: 0,268
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

vinyl bromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinyl bromide
Alternative Names: [bromoetylene]
Formula: C2H3Br
Critical Pressure: 6630000 Pa
Critical Temperature: 470,1 K
Molar Critical Volume: 161,5 cm3/mol
Melting Point: 134 K
Boiling Point: 289 K
Molecular Weight: 106,95
Acentric Factor: 0,241
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

vinyl acetylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinyl acetylene
Alternative Names: [butenyne]
Formula: C4H4
Critical Pressure: 4960000 Pa
Critical Temperature: 455 K
Molar Critical Volume: 202 cm3/mol
Melting Point: 227,6 K
Boiling Point: 278,1 K
Molecular Weight: 52,076
Acentric Factor: 0,092
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

vinyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: vinyl acetate
Alternative Names: []
Formula: C4H6O2
Critical Pressure: 4350000 Pa
Critical Temperature: 525 K
Molar Critical Volume: 265 cm3/mol
Melting Point: 173 K
Boiling Point: 346 K
Molecular Weight: 86,091
Acentric Factor: 0,34
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

vanillin

Fluid Type: Pure Newtonian Fluid
Fluid Name: vanillin
Alternative Names: []
Formula: C8H8O3
Critical Pressure: 4010000 Pa
Critical Temperature: 777 K
Molar Critical Volume: 415 cm3/mol
Melting Point: 355 K
Boiling Point: 558 K
Molecular Weight: 152,15
Acentric Factor: 0,757
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

valeric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: valeric acid
Alternative Names: [n-pentanoic acid, n-valeric acid]
Formula: C5H10O2
Critical Pressure: 3580000 Pa
Critical Temperature: 643 K
Molar Critical Volume: 340 cm3/mol
Melting Point: 239 K
Boiling Point: 459,3 K
Molecular Weight: 102,133
Acentric Factor: 0,216
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

valeraldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: valeraldehyde
Alternative Names: []
Formula: C5H10O
Critical Pressure: 3540000 Pa
Critical Temperature: 554 K
Molar Critical Volume: 333 cm3/mol
Melting Point: 182 K
Boiling Point: 376 K
Molecular Weight: 86,134
Acentric Factor: 0,4
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

underflow mud (FFDS)

Fluid Name: underflow mud (FFDS)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

undecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: undecene
Alternative Names: [1-undecene]
Formula: C11H22
Critical Pressure: 1990000 Pa
Critical Temperature: 637 K
Molar Critical Volume: 632,5 cm3/mol
Melting Point: 224 K
Boiling Point: 465,8 K
Molecular Weight: 154,295
Acentric Factor: 0,518
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

undecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: undecane
Alternative Names: [n-undecane]
Formula: C11H24
Critical Pressure: 1970000 Pa
Critical Temperature: 638,8 K
Molar Critical Volume: 689 cm3/mol
Melting Point: 247,6 K
Boiling Point: 469,1 K
Molecular Weight: 156,313
Acentric Factor: 0,535
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tungsten fluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: tungsten fluoride
Alternative Names: []
Formula: WF6
Critical Pressure: 4675000 Pa
Critical Temperature: 468,56 K
Molar Critical Volume: 228,3 cm3/mol
Melting Point: 290,45 K
Boiling Point: 272,65 K
Molecular Weight: 297,83
Acentric Factor: 0,163
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

triptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: triptane
Alternative Names: [2,2,3-trimethylbutane, triptan]
Formula: C7H16
Critical Pressure: 2950000 Pa
Critical Temperature: 531,1 K
Molar Critical Volume: 398 cm3/mol
Melting Point: 248 K
Boiling Point: 354,01 K
Molecular Weight: 100,203
Acentric Factor: 0,25
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

triphenylphosphine

Fluid Type: Pure Newtonian Fluid
Fluid Name: triphenylphosphine
Alternative Names: [triphenylphosphane]
Formula: C18H15P
Critical Pressure: 7840000 Pa
Critical Temperature: 1008 K
Molar Critical Volume: 554 cm3/mol
Melting Point: 354,4 K
Boiling Point: 650,15 K
Molecular Weight: 262,291
Acentric Factor: 0,452
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

triphenylethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: triphenylethylene
Alternative Names: [benzilidenediphenylmethane]
Formula: C20H16
Critical Pressure: 2100000 Pa
Critical Temperature: 908 K
Molar Critical Volume: 860 cm3/mol
Melting Point: 342,15 K
Boiling Point: 669 K
Molecular Weight: 256,347
Acentric Factor: 0,6
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trioxane

Fluid Type: Pure Newtonian Fluid
Fluid Name: trioxane
Alternative Names: []
Formula: C3H6O3
Critical Pressure: 5820000 Pa
Critical Temperature: 604 K
Molar Critical Volume: 206 cm3/mol
Melting Point: 334,7 K
Boiling Point: 387,7 K
Molecular Weight: 90,079
Acentric Factor: 0,334
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

trimethylene dichloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: trimethylene dichloride
Alternative Names: [1,3-dichloropropane]
Formula: C3H6Cl2
Critical Pressure: 4010000 Pa
Critical Temperature: 602,7 K
Molar Critical Volume: 301,5 cm3/mol
Melting Point: 174 K
Boiling Point: 393,6 K
Molecular Weight: 112,986
Acentric Factor: 0,288
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trimethylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: trimethylamine
Alternative Names: []
Formula: C3H9N
Critical Pressure: 2780000 Pa
Critical Temperature: 433,3 K
Molar Critical Volume: 254 cm3/mol
Melting Point: 156 K
Boiling Point: 276 K
Molecular Weight: 59,112
Acentric Factor: 0,205
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trimethyl silane

Fluid Type: Pure Newtonian Fluid
Fluid Name: trimethyl silane
Alternative Names: []
Formula: C3H10Si
Critical Pressure: 3190000 Pa
Critical Temperature: 432 K
Molar Critical Volume: 311 cm3/mol
Melting Point: 137,3 K
Boiling Point: 279,9 K
Molecular Weight: 74,198
Acentric Factor: 0,175
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

triiodomethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: triiodomethane
Alternative Names: [carbon triiodide, iodoform]
Formula: CHI3
Critical Pressure: 5310000 Pa
Critical Temperature: 794,6 K
Molar Critical Volume: 349,5 cm3/mol
Melting Point: 396 K
Boiling Point: 491,2 K
Molecular Weight: 393,732
Acentric Factor: 0,193
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

trichloroethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trichloroethylene
Alternative Names: [trichloroethene]
Formula: C2HCl3
Critical Pressure: 5050000 Pa
Critical Temperature: 572 K
Molar Critical Volume: 256 cm3/mol
Melting Point: 186,8 K
Boiling Point: 360,4 K
Molecular Weight: 131,389
Acentric Factor: 0,213
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trichloroacetaldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: trichloroacetaldehyde
Alternative Names: [chloral]
Formula: C2HCl3O
Critical Pressure: 4410000 Pa
Critical Temperature: 585 K
Molar Critical Volume: 288 cm3/mol
Melting Point: 216 K
Boiling Point: 370,85 K
Molecular Weight: 147,388
Acentric Factor: 0,332
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

trifluoroethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trifluoroethylene
Alternative Names: [trifluoroethene]
Formula: C2HF3
Critical Pressure: 4520000 Pa
Critical Temperature: 347,2 K
Molar Critical Volume: 182,5 cm3/mol
Melting Point: 95 K
Boiling Point: 221 K
Molecular Weight: 82,0251
Acentric Factor: 0,238
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

trifluoroacetic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: trifluoroacetic acid
Alternative Names: []
Formula: C2HF3O2
Critical Pressure: 3258000 Pa
Critical Temperature: 491,3 K
Molar Critical Volume: 204 cm3/mol
Melting Point: 258 K
Boiling Point: 345 K
Molecular Weight: 114,024
Acentric Factor: 0,524
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

triethylenediamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: triethylenediamine
Alternative Names: []
Formula: C6H12N2
Critical Pressure: 3910000 Pa
Critical Temperature: 655 K
Molar Critical Volume: 382 cm3/mol
Melting Point: 434,3 K
Boiling Point: 447,2 K
Molecular Weight: 112,175
Acentric Factor: 0,46
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

triethylene tetramine

Fluid Type: Pure Newtonian Fluid
Fluid Name: triethylene tetramine
Alternative Names: []
Formula: C6H18N4
Critical Pressure: 3170000 Pa
Critical Temperature: 718 K
Molar Critical Volume: 482 cm3/mol
Melting Point: 285,2 K
Boiling Point: 539,7 K
Molecular Weight: 146,236
Acentric Factor: 0,974
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

triethylene glycol

Fluid Type: Pure Newtonian Fluid
Fluid Name: triethylene glycol
Alternative Names: []
Formula: C6H14O4
Critical Pressure: 3320000 Pa
Critical Temperature: 700 K
Molar Critical Volume: 443 cm3/mol
Melting Point: 265,8 K
Boiling Point: 551 K
Molecular Weight: 150,175
Acentric Factor: 1,386
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

triethylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: triethylamine
Alternative Names: []
Formula: C6H15N
Critical Pressure: 3030000 Pa
Critical Temperature: 535 K
Molar Critical Volume: 389 cm3/mol
Melting Point: 158,4 K
Boiling Point: 362,5 K
Molecular Weight: 101,193
Acentric Factor: 0,32
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

triethanolamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: triethanolamine
Alternative Names: []
Formula: C6H15NO3
Critical Pressure: 2450000 Pa
Critical Temperature: 787 K
Molar Critical Volume: 472 cm3/mol
Melting Point: 294,4 K
Boiling Point: 613 K
Molecular Weight: 149,19
Acentric Factor: 1,101
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tridecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: tridecene
Alternative Names: []
Formula: C13H26
Critical Pressure: 1700000 Pa
Critical Temperature: 674 K
Molar Critical Volume: 744,5 cm3/mol
Melting Point: 250,1 K
Boiling Point: 505,9 K
Molecular Weight: 182,348
Acentric Factor: 0,598
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tridecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: tridecane
Alternative Names: [n-tridecane]
Formula: C13H28
Critical Pressure: 1720000 Pa
Critical Temperature: 676 K
Molar Critical Volume: 780 cm3/mol
Melting Point: 267,8 K
Boiling Point: 508,6 K
Molecular Weight: 184,367
Acentric Factor: 0,619
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Tri Giga

Fluid Type: Simple Newtonian Fluid
Fluid Name: Tri Giga
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

trans-crotonitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-crotonitrile
Alternative Names: [1-cyanopropene]
Formula: C4H5N
Critical Pressure: 5860000 Pa
Critical Temperature: 586 K
Molar Critical Volume: 282 cm3/mol
Melting Point: 222 K
Boiling Point: 394,4 K
Molecular Weight: 67,09
Acentric Factor: 0,398
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

trans-crotonic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-crotonic acid
Alternative Names: []
Formula: C4H6O2
Critical Pressure: 4700000 Pa
Critical Temperature: 666 K
Molar Critical Volume: 270 cm3/mol
Melting Point: 334,6 K
Boiling Point: 458,2 K
Molecular Weight: 86,09
Acentric Factor: 0,578
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-3-methylcyclohexanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-3-methylcyclohexanol
Alternative Names: []
Formula: C7H14O
Critical Pressure: 3790000 Pa
Critical Temperature: 617 K
Molar Critical Volume: 414 cm3/mol
Melting Point: 272,7 K
Boiling Point: 441,2 K
Molecular Weight: 114,188
Acentric Factor: 0,697
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-3-methyl-2-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-3-methyl-2-pentene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3290000 Pa
Critical Temperature: 521 K
Molar Critical Volume: 350 cm3/mol
Melting Point: 134,7 K
Boiling Point: 343,6 K
Molecular Weight: 84,161
Acentric Factor: 0,207
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-3-hexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-3-hexene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3250000 Pa
Critical Temperature: 519,9 K
Molar Critical Volume: 350 cm3/mol
Melting Point: 159,7 K
Boiling Point: 340,3 K
Molecular Weight: 84,1608
Acentric Factor: 0,227
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-3-heptene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-3-heptene
Alternative Names: []
Formula: C7H14
Critical Pressure: 2850000 Pa
Critical Temperature: 540 K
Molar Critical Volume: 406 cm3/mol
Melting Point: 136,5 K
Boiling Point: 368,5 K
Molecular Weight: 98,188
Acentric Factor: 0,334
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-2-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-2-pentene
Alternative Names: []
Formula: C5H10
Critical Pressure: 3654000 Pa
Critical Temperature: 475,37 K
Molar Critical Volume: 302,1 cm3/mol
Melting Point: 132,9 K
Boiling Point: 309,5 K
Molecular Weight: 70,134
Acentric Factor: 0,237
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-2-methylcyclohexanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-2-methylcyclohexanol
Alternative Names: []
Formula: C7H14O
Critical Pressure: 3790000 Pa
Critical Temperature: 614 K
Molar Critical Volume: 414 cm3/mol
Melting Point: 280,2 K
Boiling Point: 438,2 K
Molecular Weight: 114,188
Acentric Factor: 0,679
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-2-hexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-2-hexene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3270000 Pa
Critical Temperature: 516 K
Molar Critical Volume: 351 cm3/mol
Melting Point: 140 K
Boiling Point: 341 K
Molecular Weight: 84,1608
Acentric Factor: 0,242
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-2-heptene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-2-heptene
Alternative Names: []
Formula: C7H14
Critical Pressure: 2850000 Pa
Critical Temperature: 543 K
Molar Critical Volume: 406 cm3/mol
Melting Point: 163,7 K
Boiling Point: 371,1 K
Molecular Weight: 98,188
Acentric Factor: 0,337
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-2-butene-1,4-diol

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-2-butene-1,4-diol
Alternative Names: []
Formula: C4H8O2
Critical Pressure: 5200000 Pa
Critical Temperature: 681 K
Molar Critical Volume: 279 cm3/mol
Melting Point: 300,5 K
Boiling Point: 510 K
Molecular Weight: 88,106
Acentric Factor: 1,174
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-2-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-2-butene
Alternative Names: []
Formula: C4H8
Critical Pressure: 3990000 Pa
Critical Temperature: 428,6 K
Molar Critical Volume: 238 cm3/mol
Melting Point: 167,6 K
Boiling Point: 274 K
Molecular Weight: 56,108
Acentric Factor: 0,205
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-1,4-dimethylcyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-1,4-dimethylcyclohexane
Alternative Names: []
Formula: C8H16
Critical Pressure: 2970000 Pa
Critical Temperature: 587,7 K
Molar Critical Volume: 450 cm3/mol
Melting Point: 236,2 K
Boiling Point: 392,5 K
Molecular Weight: 112,214
Acentric Factor: 0,242
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-1,3-pentadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-1,3-pentadiene
Alternative Names: []
Formula: C5H8
Critical Pressure: 3740000 Pa
Critical Temperature: 500 K
Molar Critical Volume: 276 cm3/mol
Melting Point: 185,7 K
Boiling Point: 315,2 K
Molecular Weight: 68,118
Acentric Factor: 0,116
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-1,3-dimethylcyclopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-1,3-dimethylcyclopentane
Alternative Names: []
Formula: C7H14
Critical Pressure: 3445000 Pa
Critical Temperature: 553 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 139,2 K
Boiling Point: 364,9 K
Molecular Weight: 98,188
Acentric Factor: 0,27
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-1,3-dimethylcyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-1,3-dimethylcyclohexane
Alternative Names: []
Formula: C8H16
Critical Pressure: 2970000 Pa
Critical Temperature: 598 K
Molar Critical Volume: 415,5 cm3/mol
Melting Point: 183 K
Boiling Point: 397,6 K
Molecular Weight: 112,214
Acentric Factor: 0,189
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-1,2-dimethylcyclopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-1,2-dimethylcyclopentane
Alternative Names: []
Formula: C7H14
Critical Pressure: 3440000 Pa
Critical Temperature: 553,2 K
Molar Critical Volume: 362 cm3/mol
Melting Point: 155,6 K
Boiling Point: 365 K
Molecular Weight: 98,1876
Acentric Factor: 0,269
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-1,2-dimethylcyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-1,2-dimethylcyclohexane
Alternative Names: []
Formula: C8H16
Critical Pressure: 2900000 Pa
Critical Temperature: 596 K
Molar Critical Volume: 471,3 cm3/mol
Melting Point: 185 K
Boiling Point: 396,7 K
Molecular Weight: 112,214
Acentric Factor: 0,242
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-1,2-dichloroethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-1,2-dichloroethylene
Alternative Names: []
Formula: C2H2Cl2
Critical Pressure: 5190000 Pa
Critical Temperature: 508 K
Molar Critical Volume: 224 cm3/mol
Melting Point: 223,4 K
Boiling Point: 320,9 K
Molecular Weight: 96,9438
Acentric Factor: 0,264
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

trans-1,2-difluoroethene

Fluid Type: Pure Newtonian Fluid
Fluid Name: trans-1,2-difluoroethene
Alternative Names: []
Formula: C2H2F2
Critical Pressure: 4769000 Pa
Critical Temperature: 394,7 K
Molar Critical Volume: 163,5 cm3/mol
Melting Point: 107,9 K
Boiling Point: 247,9 K
Molecular Weight: 64,035
Acentric Factor: 0,21
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Toothpaste

Fluid Name: Toothpaste
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

toluene-THF (85:15)

Fluid Type: Mixture defined as mass percent
Fluid Name: toluene-THF (85:15)
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

toluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: toluene
Alternative Names: [methyl benzene]
Formula: C7H8
Critical Pressure: 4108000 Pa
Critical Temperature: 591,8 K
Molar Critical Volume: 316 cm3/mol
Melting Point: 178,2 K
Boiling Point: 383,78 K
Molecular Weight: 92,1402
Acentric Factor: 0,263
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

titanium tetrachloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: titanium tetrachloride
Alternative Names: []
Formula: TiCl4
Critical Pressure: 4660000 Pa
Critical Temperature: 638 K
Molar Critical Volume: 339,2 cm3/mol
Melting Point: 243 K
Boiling Point: 409,6 K
Molecular Weight: 189,712
Acentric Factor: 0,268
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

thiophene

Fluid Type: Pure Newtonian Fluid
Fluid Name: thiophene
Alternative Names: [thiofuran]
Formula: C4H4S
Critical Pressure: 5690000 Pa
Critical Temperature: 579,4 K
Molar Critical Volume: 219 cm3/mol
Melting Point: 234,9 K
Boiling Point: 357,2 K
Molecular Weight: 84,136
Acentric Factor: 0,196
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

thioacetic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: thioacetic acid
Alternative Names: [acetyl mercaptan]
Formula: C2H4OS
Critical Pressure: 6921000 Pa
Critical Temperature: 577,3 K
Molar Critical Volume: 219,5 cm3/mol
Melting Point: 150,2 K
Boiling Point: 360,2 K
Molecular Weight: 76,113
Acentric Factor: 0,304
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

thin juice 29rds

Fluid Type: Simple Newtonian Fluid
Fluid Name: thin juice 29rds
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thin juice 23rds

Fluid Type: Simple Newtonian Fluid
Fluid Name: thin juice 23rds
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thin juice 20bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: thin juice 20bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thin juice 16bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: thin juice 16bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thin juice 16.5bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: thin juice 16.5bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thin juice 15bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: thin juice 15bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thick juice 69bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: thick juice 69bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thick juice 67bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: thick juice 67bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thick juice 65bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: thick juice 65bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thick juice 54rds

Fluid Type: Simple Newtonian Fluid
Fluid Name: thick juice 54rds
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thick juice 44bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: thick juice 44bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

thiacyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: thiacyclohexane
Alternative Names: []
Formula: C5H10S
Critical Pressure: 4653000 Pa
Critical Temperature: 657,12 K
Molar Critical Volume: 295,5 cm3/mol
Melting Point: 292,14 K
Boiling Point: 414,9 K
Molecular Weight: 102,194
Acentric Factor: 0,22
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Undefined]

thiacyclobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: thiacyclobutane
Alternative Names: []
Formula: C3H6S
Critical Pressure: 6100000 Pa
Critical Temperature: 603 K
Molar Critical Volume: 199,5 cm3/mol
Melting Point: 200 K
Boiling Point: 368,2 K
Molecular Weight: 74,14
Acentric Factor: 0,195
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

therminol vp-1

Fluid Type: Pure Newtonian Fluid
Fluid Name: therminol vp-1
Alternative Names: []
Formula: N/A
Critical Pressure: 3310000 Pa
Critical Temperature: 772 K
Molar Critical Volume: 502 cm3/mol
Melting Point: 285 K
Boiling Point: 530 K
Molecular Weight: 166
Acentric Factor: 0,4
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

tetraphenylethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetraphenylethylene
Alternative Names: [Tetraphenylethylene , TPE]
Formula: C26H20
Critical Pressure: 1710000 Pa
Critical Temperature: 996 K
Molar Critical Volume: 1020 cm3/mol
Melting Point: 496,15 K
Boiling Point: 760 K
Molecular Weight: 332,445
Acentric Factor: 0,729
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tetranitromethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetranitromethane
Alternative Names: [tnm]
Formula: CN4O8
Critical Pressure: 1740000 Pa
Critical Temperature: 540 K
Molar Critical Volume: 468 cm3/mol
Melting Point: 287 K
Boiling Point: 398,9 K
Molecular Weight: 196,033
Acentric Factor: 0,516
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

tetramethylsilane

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetramethylsilane
Alternative Names: []
Formula: C4H12Si
Critical Pressure: 2814000 Pa
Critical Temperature: 450,4 K
Molar Critical Volume: 357 cm3/mol
Melting Point: 174 K
Boiling Point: 299,8 K
Molecular Weight: 88,225
Acentric Factor: 0,224
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tetrachlorothiophene

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetrachlorothiophene
Alternative Names: []
Formula: C4Cl4S
Critical Pressure: 3670000 Pa
Critical Temperature: 753 K
Molar Critical Volume: 428 cm3/mol
Melting Point: 302 K
Boiling Point: 506,5 K
Molecular Weight: 221,921
Acentric Factor: 0,361
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

tetrahydrothiophene

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetrahydrothiophene
Alternative Names: [thiacyclopentane, thiolane]
Formula: C4H8S
Critical Pressure: 5160000 Pa
Critical Temperature: 632 K
Molar Critical Volume: 249 cm3/mol
Melting Point: 177 K
Boiling Point: 394,3 K
Molecular Weight: 88,173
Acentric Factor: 0,199
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tetrahydrofuran

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetrahydrofuran
Alternative Names: [cyclotetramethyleneoxide]
Formula: C4H8O
Critical Pressure: 5190000 Pa
Critical Temperature: 540,1 K
Molar Critical Volume: 224 cm3/mol
Melting Point: 164,7 K
Boiling Point: 338 K
Molecular Weight: 72,107
Acentric Factor: 0,217
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tetraflouroethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetraflouroethylene
Alternative Names: [perfluoroethene]
Formula: C2F4
Critical Pressure: 3940000 Pa
Critical Temperature: 306,5 K
Molar Critical Volume: 172 cm3/mol
Melting Point: 130,7 K
Boiling Point: 197,2 K
Molecular Weight: 100,016
Acentric Factor: 0,223
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tetradecylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetradecylamine
Alternative Names: []
Formula: C14H31N
Critical Pressure: 1660000 Pa
Critical Temperature: 722,3 K
Molar Critical Volume: 887 cm3/mol
Melting Point: 311,34 K
Boiling Point: 564,45 K
Molecular Weight: 213,407
Acentric Factor: 0,86
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tetradecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetradecene
Alternative Names: [n-tetradecene]
Formula: C14H28
Critical Pressure: 1560000 Pa
Critical Temperature: 689 K
Molar Critical Volume: 800,5 cm3/mol
Melting Point: 260 K
Boiling Point: 524,3 K
Molecular Weight: 196,375
Acentric Factor: 0,644
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tetradecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetradecane
Alternative Names: [n-tetradecane]
Formula: C14H30
Critical Pressure: 1440000 Pa
Critical Temperature: 693 K
Molar Critical Volume: 830 cm3/mol
Melting Point: 279 K
Boiling Point: 526,7 K
Molecular Weight: 198,394
Acentric Factor: 0,581
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tetrabromomethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: tetrabromomethane
Alternative Names: [1,1,2,2-tetrabromomethane, acetylene tetrabromide]
Formula: C2H2Br4
Critical Pressure: 4600000 Pa
Critical Temperature: 824 K
Molar Critical Volume: 401 cm3/mol
Melting Point: 273 K
Boiling Point: 516,6 K
Molecular Weight: 345,654
Acentric Factor: 0,177
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

tert-butylformamide

Fluid Type: Pure Newtonian Fluid
Fluid Name: tert-butylformamide
Alternative Names: []
Formula: C5H11NO
Critical Pressure: 3560000 Pa
Critical Temperature: 692 K
Molar Critical Volume: 383 cm3/mol
Melting Point: 289,15 K
Boiling Point: 475,15 K
Molecular Weight: 101,148
Acentric Factor: 0,449
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tert-butylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: tert-butylamine
Alternative Names: []
Formula: C4H11N
Critical Pressure: 3840000 Pa
Critical Temperature: 483,9 K
Molar Critical Volume: 293 cm3/mol
Melting Point: 206,2 K
Boiling Point: 317,6 K
Molecular Weight: 73,138
Acentric Factor: 0,275
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tert-butyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: tert-butyl mercaptan
Alternative Names: [2-methyl-2-propanethiol]
Formula: C4H10OS
Critical Pressure: 4060000 Pa
Critical Temperature: 530 K
Molar Critical Volume: 307 cm3/mol
Melting Point: 274,3 K
Boiling Point: 337,4 K
Molecular Weight: 90,189
Acentric Factor: 0,191
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tert-butyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: tert-butyl chloride
Alternative Names: [trimethylchloromethane]
Formula: C4H9Cl
Critical Pressure: 3900000 Pa
Critical Temperature: 507 K
Molar Critical Volume: 300 cm3/mol
Melting Point: 247,8 K
Boiling Point: 323,8 K
Molecular Weight: 92,568
Acentric Factor: 0,194
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

tert-butanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: tert-butanol
Alternative Names: []
Formula: C4H10O
Critical Pressure: 3972000 Pa
Critical Temperature: 506,2 K
Molar Critical Volume: 275 cm3/mol
Melting Point: 298,5 K
Boiling Point: 355,5 K
Molecular Weight: 74,1224
Acentric Factor: 0,612
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

terephthalic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: terephthalic acid
Alternative Names: []
Formula: C8H6O4
Critical Pressure: 3950000 Pa
Critical Temperature: 1113 K
Molar Critical Volume: 424 cm3/mol
Melting Point: 700,2 K
Boiling Point: 832 K
Molecular Weight: 166,133
Acentric Factor: 1,059
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

TEOS

Fluid Type: Simple Newtonian Fluid
Fluid Name: TEOS
Alternative Names: [Kieselsaure(H4SiO4)tetraethylester]
Formula: C8H20O4Si
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

temper -55

Fluid Type: Simple Newtonian Fluid
Fluid Name: temper -55
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

temper -40

Fluid Type: Simple Newtonian Fluid
Fluid Name: temper -40
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

temper -30

Fluid Type: Simple Newtonian Fluid
Fluid Name: temper -30
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

temper -20

Fluid Type: Simple Newtonian Fluid
Fluid Name: temper -20
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

tartaric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: tartaric acid
Alternative Names: []
Formula: C4H6O6
Critical Pressure: 5185000 Pa
Critical Temperature: 828 K
Molar Critical Volume: 305 cm3/mol
Melting Point: 479,2 K
Boiling Point: 660 K
Molecular Weight: 150,088
Acentric Factor: 2,011
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

syltherm xlt

Fluid Type: Simple Newtonian Fluid
Fluid Name: syltherm xlt
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

sulphuric acid (96%)

Fluid Type: Simple Newtonian Fluid
Fluid Name: sulphuric acid (96%)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

sulphuric acid (33.5%)

Fluid Type: Mixture defined as mass percent
Fluid Name: sulphuric acid (33.5%)
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

sulphuric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: sulphuric acid
Alternative Names: [oil of vitreol, sulfuric acid]
Formula: H2SO4
Critical Pressure: 6400000 Pa
Critical Temperature: 925 K
Molar Critical Volume: 177 cm3/mol
Melting Point: 283,46 K
Boiling Point: 610 K
Molecular Weight: 98,079
Acentric Factor: 0,494
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sulfur trioxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: sulfur trioxide
Alternative Names: []
Formula: SO3
Critical Pressure: 8210000 Pa
Critical Temperature: 491 K
Molar Critical Volume: 127,3 cm3/mol
Melting Point: 290 K
Boiling Point: 318 K
Molecular Weight: 80,058
Acentric Factor: 0,481
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

sulfur hexafluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: sulfur hexafluoride
Alternative Names: []
Formula: SF6
Critical Pressure: 3760000 Pa
Critical Temperature: 318,69 K
Molar Critical Volume: 198,5 cm3/mol
Melting Point: 152,45 K
Boiling Point: 209,25 K
Molecular Weight: 146,056
Acentric Factor: 0,215
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sulfur dioxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: sulfur dioxide
Alternative Names: []
Formula: SO2
Critical Pressure: 7884000 Pa
Critical Temperature: 430,8 K
Molar Critical Volume: 122,2 cm3/mol
Melting Point: 197,7 K
Boiling Point: 263,2 K
Molecular Weight: 64,0588
Acentric Factor: 0,256
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

sulfolane

Fluid Type: Pure Newtonian Fluid
Fluid Name: sulfolane
Alternative Names: []
Formula: C4H8O2S
Critical Pressure: 5030000 Pa
Critical Temperature: 849 K
Molar Critical Volume: 300 cm3/mol
Melting Point: 300,8 K
Boiling Point: 558,2 K
Molecular Weight: 120,172
Acentric Factor: 0,382
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sugar liquor 72bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: sugar liquor 72bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

sugar liquor 71bx 93.5pty

Fluid Type: Simple Newtonian Fluid
Fluid Name: sugar liquor 71bx 93.5pty
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

succinonitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: succinonitrile
Alternative Names: [ethylene dicyanide]
Formula: C4H4N2
Critical Pressure: 3540000 Pa
Critical Temperature: 770 K
Molar Critical Volume: 300 cm3/mol
Melting Point: 331,3 K
Boiling Point: 540,2 K
Molecular Weight: 80,089
Acentric Factor: 0,5549
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

succinic anhydride

Fluid Type: Pure Newtonian Fluid
Fluid Name: succinic anhydride
Alternative Names: []
Formula: C4H4O3
Critical Pressure: 6730000 Pa
Critical Temperature: 811 K
Molar Critical Volume: 223 cm3/mol
Melting Point: 393 K
Boiling Point: 536,6 K
Molecular Weight: 100,074
Acentric Factor: 0,53
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

succinic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: succinic acid
Alternative Names: [butanedioic acid]
Formula: C4H6O4
Critical Pressure: 4710000 Pa
Critical Temperature: 806 K
Molar Critical Volume: 300 cm3/mol
Melting Point: 461,2 K
Boiling Point: 591 K
Molecular Weight: 118,089
Acentric Factor: 0,991
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

styrene

Fluid Type: Pure Newtonian Fluid
Fluid Name: styrene
Alternative Names: [phenylethylene, vinylbenzene]
Formula: C8H8
Critical Pressure: 3990000 Pa
Critical Temperature: 647 K
Molar Critical Volume: 350,48 cm3/mol
Melting Point: 242,5 K
Boiling Point: 418,3 K
Molecular Weight: 104,152
Acentric Factor: 0,257
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

stearic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: stearic acid
Alternative Names: [n-octadecanoic acid, n-stearic acid]
Formula: C18H36O2
Critical Pressure: 1360000 Pa
Critical Temperature: 799 K
Molar Critical Volume: 1020 cm3/mol
Melting Point: 342,75 K
Boiling Point: 648,35 K
Molecular Weight: 284,483
Acentric Factor: 1,084
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

steam (for mixtures only)

Fluid Name: steam (for mixtures only)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

silicon tetrachloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: silicon tetrachloride
Alternative Names: []
Formula: SiCl4
Critical Pressure: 3590000 Pa
Critical Temperature: 508,1 K
Molar Critical Volume: 325,7 cm3/mol
Melting Point: 204,3 K
Boiling Point: 330,8 K
Molecular Weight: 169,898
Acentric Factor: 0,232
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

silicon tetrafluoride

Fluid Name: silicon tetrafluoride
Alternative Names: []
Formula: SiF4
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Undefined]
Liquid Specific Heat Definition: [Undefined]
Liquid Thermal Conductivity Definition: [Undefined]
Liquid Viscosity Definition: [Undefined]
Vapor Pressure Definition: [Undefined]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Undefined]

silane

Fluid Type: Pure Newtonian Fluid
Fluid Name: silane
Alternative Names: [silicon hydride]
Formula: SiH4
Critical Pressure: 4843000 Pa
Critical Temperature: 269,7 K
Molar Critical Volume: 132,7 cm3/mol
Melting Point: 88,13 K
Boiling Point: 161 K
Molecular Weight: 32,117
Acentric Factor: 0,097
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sewage sludge C

Fluid Name: sewage sludge C
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Herschel Bulkley]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

sewage sludge B

Fluid Name: sewage sludge B
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

sewage sludge A

Fluid Name: sewage sludge A
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Sewage Sludge (14%)

Fluid Name: Sewage Sludge (14%)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

sec-butylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: sec-butylamine
Alternative Names: []
Formula: C4H11N
Critical Pressure: 4000000 Pa
Critical Temperature: 514,3 K
Molar Critical Volume: 310 cm3/mol
Melting Point: 168,7 K
Boiling Point: 336,2 K
Molecular Weight: 73,138
Acentric Factor: 0,282
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sec-butyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: sec-butyl mercaptan
Alternative Names: [2-butanethiol]
Formula: C4H10S
Critical Pressure: 4060000 Pa
Critical Temperature: 554 K
Molar Critical Volume: 307 cm3/mol
Melting Point: 133 K
Boiling Point: 358,1 K
Molecular Weight: 90,189
Acentric Factor: 0,248
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sec-butyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: sec-butyl chloride
Alternative Names: [2-chlorobutane]
Formula: C4H9Cl
Critical Pressure: 3950000 Pa
Critical Temperature: 520,6 K
Molar Critical Volume: 300 cm3/mol
Melting Point: 141,9 K
Boiling Point: 341,3 K
Molecular Weight: 92,568
Acentric Factor: 0,291
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sec-butyl bromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: sec-butyl bromide
Alternative Names: [2-bromobutane]
Formula: C4H9Br
Critical Pressure: 4630000 Pa
Critical Temperature: 567 K
Molar Critical Volume: 320 cm3/mol
Melting Point: 161,3 K
Boiling Point: 364,4 K
Molecular Weight: 137,019
Acentric Factor: 0,268
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sec-butyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: sec-butyl acetate
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 3170000 Pa
Critical Temperature: 561 K
Molar Critical Volume: 389 cm3/mol
Melting Point: 174,2 K
Boiling Point: 385,2 K
Molecular Weight: 116,16
Acentric Factor: 0,406
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sec-butanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: sec-butanol
Alternative Names: [sec-butanol]
Formula: C4H10O
Critical Pressure: 4202000 Pa
Critical Temperature: 536,2 K
Molar Critical Volume: 269 cm3/mol
Melting Point: 158,4 K
Boiling Point: 372,66 K
Molecular Weight: 74,1224
Acentric Factor: 0,577
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

sea water

Fluid Type: Simple Newtonian Fluid
Fluid Name: sea water
Alternative Names: []
Formula: Not Applicable
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

salicylic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: salicylic acid
Alternative Names: []
Formula: C7H6O3
Critical Pressure: 5180000 Pa
Critical Temperature: 739 K
Molar Critical Volume: 364 cm3/mol
Melting Point: 431,8 K
Boiling Point: 529 K
Molecular Weight: 138,123
Acentric Factor: 0,832
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

salicylaldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: salicylaldehyde
Alternative Names: []
Formula: C7H6O2
Critical Pressure: 4990000 Pa
Critical Temperature: 680 K
Molar Critical Volume: 342 cm3/mol
Melting Point: 266,2 K
Boiling Point: 469,7 K
Molecular Weight: 122,123
Acentric Factor: 0,626
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

SAE 30 Lube Oil

Fluid Type: Simple Newtonian Fluid
Fluid Name: SAE 30 Lube Oil
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

SAE 10 Lube Oil

Fluid Type: Simple Newtonian Fluid
Fluid Name: SAE 10 Lube Oil
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

red mud Cw55

Fluid Name: red mud Cw55
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

red mud A

Fluid Name: red mud A
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

raw juice 16.5 rds

Fluid Type: Simple Newtonian Fluid
Fluid Name: raw juice 16.5 rds
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

raffinate 72bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: raffinate 72bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

raffinate 70bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: raffinate 70bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

R-41 [methyl fluoride]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-41 [methyl fluoride]
Alternative Names: [fluoromethane, methyl fluoride]
Formula: CH3F
Critical Pressure: 5548000 Pa
Critical Temperature: 315 K
Molar Critical Volume: 113,3 cm3/mol
Melting Point: 131,4 K
Boiling Point: 194,8 K
Molecular Weight: 34,033
Acentric Factor: 0,204
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-40b [bromomethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-40b [bromomethane]
Alternative Names: [bromomethane, methyl bromide]
Formula: CH3Br
Critical Pressure: 6610000 Pa
Critical Temperature: 467 K
Molar Critical Volume: 156 cm3/mol
Melting Point: 179,6 K
Boiling Point: 276,7 K
Molecular Weight: 94,939
Acentric Factor: 0,192
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-404a [mixture]

Fluid Type: Mixture defined as mass percent
Fluid Name: R-404a [mixture]
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

R-32 [difluoromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-32 [difluoromethane]
Alternative Names: [freon 32, difluoromethane]
Formula: CH2F2
Critical Pressure: 5805000 Pa
Critical Temperature: 351,6 K
Molar Critical Volume: 121 cm3/mol
Melting Point: 137 K
Boiling Point: 221,4 K
Molecular Weight: 52,0236
Acentric Factor: 0,278
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-31 [chlorofluoromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-31 [chlorofluoromethane]
Alternative Names: [chlorofluoromethane]
Formula: CH2ClF
Critical Pressure: 5130000 Pa
Critical Temperature: 425 K
Molar Critical Volume: 158,5 cm3/mol
Melting Point: 140 K
Boiling Point: 264,1 K
Molecular Weight: 68,4782
Acentric Factor: 0,199
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-30b2 [dibromomethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-30b2 [dibromomethane]
Alternative Names: [methyl dibromide, methylene bromide]
Formula: CH2Br2
Critical Pressure: 7170000 Pa
Critical Temperature: 611 K
Molar Critical Volume: 223 cm3/mol
Melting Point: 220,6 K
Boiling Point: 370,1 K
Molecular Weight: 173,835
Acentric Factor: 0,21
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-30b1 [bromochloromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-30b1 [bromochloromethane]
Alternative Names: [bromochloromethane, cbm]
Formula: CH2BrCl
Critical Pressure: 6810000 Pa
Critical Temperature: 557 K
Molar Critical Volume: 188 cm3/mol
Melting Point: 185,2 K
Boiling Point: 341,2 K
Molecular Weight: 129,384
Acentric Factor: 0,22
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-23 [trifluoromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-23 [trifluoromethane]
Alternative Names: [fluroform, R-23]
Formula: CHF3
Critical Pressure: 4836000 Pa
Critical Temperature: 299,3 K
Molar Critical Volume: 133 cm3/mol
Melting Point: 118 K
Boiling Point: 191,1 K
Molecular Weight: 70,014
Acentric Factor: 0,267
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-22 [chlorodifluoromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-22 [chlorodifluoromethane]
Alternative Names: [difluorochloromethane, chlorodifluoromethane]
Formula: CHClF2
Critical Pressure: 4986000 Pa
Critical Temperature: 369,3 K
Molar Critical Volume: 166 cm3/mol
Melting Point: 115,7 K
Boiling Point: 232,1 K
Molecular Weight: 86,468
Acentric Factor: 0,221
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-21 [dichlorofluoromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-21 [dichlorofluoromethane]
Alternative Names: [dichlorofluoromethane]
Formula: CHCl2F
Critical Pressure: 5187000 Pa
Critical Temperature: 451,6 K
Molar Critical Volume: 196 cm3/mol
Melting Point: 138,2 K
Boiling Point: 282 K
Molecular Weight: 102,923
Acentric Factor: 0,207
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-20b3 [tribromomethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-20b3 [tribromomethane]
Alternative Names: [bromoform]
Formula: CHBr3
Critical Pressure: 6090000 Pa
Critical Temperature: 696 K
Molar Critical Volume: 286 cm3/mol
Melting Point: 281,2 K
Boiling Point: 422,3 K
Molecular Weight: 252,731
Acentric Factor: 0,156
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-161 [fluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-161 [fluoroethane]
Alternative Names: [fluoroethane, ethyl fluoride]
Formula: C2H5F
Critical Pressure: 5027000 Pa
Critical Temperature: 375,3 K
Molar Critical Volume: 164 cm3/mol
Melting Point: 130 K
Boiling Point: 235,43 K
Molecular Weight: 48,06
Acentric Factor: 0,217
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-152a [1,1-difluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-152a [1,1-difluoroethane]
Alternative Names: [1,1-difluoroethane, ethylidene fluoride]
Formula: C2H4F2
Critical Pressure: 4516000 Pa
Critical Temperature: 386,4 K
Molar Critical Volume: 181 cm3/mol
Melting Point: 156,2 K
Boiling Point: 249,1 K
Molecular Weight: 66,051
Acentric Factor: 0,256
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-152 [1,2-difluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-152 [1,2-difluoroethane]
Alternative Names: [1,2-difluoroethane]
Formula: C2H4F2
Critical Pressure: 4340000 Pa
Critical Temperature: 476 K
Molar Critical Volume: 202 cm3/mol
Melting Point: 178 K
Boiling Point: 303,7 K
Molecular Weight: 66,051
Acentric Factor: 0,224
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-150a [ethylidene dichloride]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-150a [ethylidene dichloride]
Alternative Names: [1,1-dichloroethane, ethylidene dichloride]
Formula: C2H4Cl2
Critical Pressure: 5070000 Pa
Critical Temperature: 523 K
Molar Critical Volume: 236 cm3/mol
Melting Point: 176,2 K
Boiling Point: 330,5 K
Molecular Weight: 98,96
Acentric Factor: 0,24
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-143a [methylfluoroform]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-143a [methylfluoroform]
Alternative Names: [1,1,1-trifloroethane, methylfluoroform]
Formula: C2H3F3
Critical Pressure: 3760000 Pa
Critical Temperature: 346,3 K
Molar Critical Volume: 194 cm3/mol
Melting Point: 161,8 K
Boiling Point: 225,6 K
Molecular Weight: 84,041
Acentric Factor: 0,251
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-142b [1-chloro-1,1-difluroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-142b [1-chloro-1,1-difluroethane]
Alternative Names: []
Formula: C2H3ClF2
Critical Pressure: 4330000 Pa
Critical Temperature: 409,6 K
Molar Critical Volume: 231 cm3/mol
Melting Point: 142 K
Boiling Point: 263,4 K
Molecular Weight: 100,496
Acentric Factor: 0,251
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-140a [1,1,1-trichloroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-140a [1,1,1-trichloroethane]
Alternative Names: [1,1,1-trichloroethane, methyl chloroform]
Formula: C2H3Cl3
Critical Pressure: 4295000 Pa
Critical Temperature: 545 K
Molar Critical Volume: 281 cm3/mol
Melting Point: 242,8 K
Boiling Point: 347,25 K
Molecular Weight: 133,405
Acentric Factor: 0,2165
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-14 [carbon tetrafluoride]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-14 [carbon tetrafluoride]
Alternative Names: [tetrafluoromethane, carbon tetrafluoride, freon 14]
Formula: CF4
Critical Pressure: 3745000 Pa
Critical Temperature: 227,5 K
Molar Critical Volume: 140,7 cm3/mol
Melting Point: 89,6 K
Boiling Point: 145,1 K
Molecular Weight: 88,0046
Acentric Factor: 0,177
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-13b1 [bromotrifluoromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-13b1 [bromotrifluoromethane]
Alternative Names: [trifluorobromomethane, bromotrifluoromethane]
Formula: CBrF3
Critical Pressure: 3972000 Pa
Critical Temperature: 340,2 K
Molar Critical Volume: 200 cm3/mol
Melting Point: 105,2 K
Boiling Point: 215,3 K
Molecular Weight: 148,91
Acentric Factor: 0,173
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-134a [1,1,1,2-tetrafluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-134a [1,1,1,2-tetrafluoroethane]
Alternative Names: [1,1,1,2-tetrafluroethane, norfluran]
Formula: C2H2F4
Critical Pressure: 4059000 Pa
Critical Temperature: 374,3 K
Molar Critical Volume: 200,8 cm3/mol
Melting Point: 172,2 K
Boiling Point: 247,04 K
Molecular Weight: 102,031
Acentric Factor: 0,326
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-130a [1,1,1,2-tetrachloroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-130a [1,1,1,2-tetrachloroethane]
Alternative Names: [1,1,1,2-tetrachloroethane]
Formula: C2H2Cl4
Critical Pressure: 4020000 Pa
Critical Temperature: 624 K
Molar Critical Volume: 325 cm3/mol
Melting Point: 203 K
Boiling Point: 403,7 K
Molecular Weight: 167,85
Acentric Factor: 0,242
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-13 [chlorotrifluoromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-13 [chlorotrifluoromethane]
Alternative Names: [trifluorochloromethane]
Formula: CClF3
Critical Pressure: 3873000 Pa
Critical Temperature: 302 K
Molar Critical Volume: 180,3 cm3/mol
Melting Point: 92,2 K
Boiling Point: 191,7 K
Molecular Weight: 104,459
Acentric Factor: 0,175
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-125 [pentafluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-125 [pentafluoroethane]
Alternative Names: [pentafluoroethane]
Formula: C2HF5
Critical Pressure: 6139000 Pa
Critical Temperature: 308,3 K
Molar Critical Volume: 113 cm3/mol
Melting Point: 192,4 K
Boiling Point: 189,2 K
Molecular Weight: 26,038
Acentric Factor: 0,187
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-12 [dichlodifluoromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-12 [dichlodifluoromethane]
Alternative Names: [arcton 6]
Formula: CCl2F2
Critical Pressure: 4140000 Pa
Critical Temperature: 385 K
Molar Critical Volume: 216,7 cm3/mol
Melting Point: 115,4 K
Boiling Point: 245,2 K
Molecular Weight: 120,914
Acentric Factor: 0,204
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-116 [hexafluroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-116 [hexafluroethane]
Alternative Names: [perfluroethane]
Formula: C2F6
Critical Pressure: 3060000 Pa
Critical Temperature: 293 K
Molar Critical Volume: 222 cm3/mol
Melting Point: 172,4 K
Boiling Point: 194,9 K
Molecular Weight: 138,012
Acentric Factor: 0,23
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-115 [chloropentafluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-115 [chloropentafluoroethane]
Alternative Names: [freon 115, chloropentafluoroethane]
Formula: C2ClF5
Critical Pressure: 3129000 Pa
Critical Temperature: 353,1 K
Molar Critical Volume: 256 cm3/mol
Melting Point: 173,7 K
Boiling Point: 234,08 K
Molecular Weight: 154,467
Acentric Factor: 0,251
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-114b2 [1,2-dibromotetrafluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-114b2 [1,2-dibromotetrafluoroethane]
Alternative Names: [1,2-dibromotetrafluoroethane]
Formula: C2Br2F4
Critical Pressure: 3393000 Pa
Critical Temperature: 487,8 K
Molar Critical Volume: 341 cm3/mol
Melting Point: 162,7 K
Boiling Point: 320,5 K
Molecular Weight: 259,824
Acentric Factor: 0,245
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-114a [1,1-dichlorotetrafluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-114a [1,1-dichlorotetrafluoroethane]
Alternative Names: [1,1-dichloro-1,2,2,2-tetrafluoroethane]
Formula: C2Cl2F4
Critical Pressure: 3213000 Pa
Critical Temperature: 418,7 K
Molar Critical Volume: 294 cm3/mol
Melting Point: 216,6 K
Boiling Point: 276,59 K
Molecular Weight: 170,921
Acentric Factor: 0,263
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

R-114 [1,2-dichlorotetrafluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-114 [1,2-dichlorotetrafluoroethane]
Alternative Names: [1,2-dichloro-1,1,2,2-tetrafluoroethane]
Formula: C2Cl2F4
Critical Pressure: 3237000 Pa
Critical Temperature: 418,9 K
Molar Critical Volume: 294 cm3/mol
Melting Point: 180,6 K
Boiling Point: 276,58 K
Molecular Weight: 170,921
Acentric Factor: 0,246
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

R-113b1 [bromotrifluoroethylene]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-113b1 [bromotrifluoroethylene]
Alternative Names: [bromotrifluoroethylene, trifluorobromoethylene]
Formula: C2BrF3
Critical Pressure: 4480000 Pa
Critical Temperature: 432 K
Molar Critical Volume: 239 cm3/mol
Melting Point: 220 K
Boiling Point: 270,65 K
Molecular Weight: 160,921
Acentric Factor: 0,175
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-113 [1,1,2-trichlorotrifluoroethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-113 [1,1,2-trichlorotrifluoroethane]
Alternative Names: [1,1,2-trichlorotrifluoroethane]
Formula: C2Cl3F3
Critical Pressure: 3410000 Pa
Critical Temperature: 487,3 K
Molar Critical Volume: 323,5 cm3/mol
Melting Point: 238,2 K
Boiling Point: 320,8 K
Molecular Weight: 187,38
Acentric Factor: 0,256
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-112a [1,1,1,2-tetrachlorodifluoroethan

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-112a [1,1,1,2-tetrachlorodifluoroethan
Alternative Names: [1,1,1,2-tetrachlorodifluoroethane]
Formula: C2Cl4F2
Critical Pressure: 3340000 Pa
Critical Temperature: 551 K
Molar Critical Volume: 351 cm3/mol
Melting Point: 299,2 K
Boiling Point: 366 K
Molecular Weight: 203,83
Acentric Factor: 0,291
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-11 [trichlorofluoromethane]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-11 [trichlorofluoromethane]
Alternative Names: [arcton 9, trichlorofluoromethane]
Formula: CCl3F
Critical Pressure: 4472000 Pa
Critical Temperature: 471,1 K
Molar Critical Volume: 248 cm3/mol
Melting Point: 162,7 K
Boiling Point: 296,8 K
Molecular Weight: 137,368
Acentric Factor: 0,195
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Bondi Estimated from Gas Relation]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

R-10 [carbon tetrachloride]

Fluid Type: Pure Newtonian Fluid
Fluid Name: R-10 [carbon tetrachloride]
Alternative Names: [tetrachloromethane, carbon tetrachloride]
Formula: CCl4
Critical Pressure: 4557000 Pa
Critical Temperature: 556,3 K
Molar Critical Volume: 276 cm3/mol
Melting Point: 250,3 K
Boiling Point: 349,8 K
Molecular Weight: 153,823
Acentric Factor: 0,193
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pyruvic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: pyruvic acid
Alternative Names: []
Formula: C3H4O3
Critical Pressure: 5650000 Pa
Critical Temperature: 634,5 K
Molar Critical Volume: 239 cm3/mol
Melting Point: 286,8 K
Boiling Point: 438,2 K
Molecular Weight: 88,063
Acentric Factor: 0,67
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

pyrrolidine

Fluid Type: Pure Newtonian Fluid
Fluid Name: pyrrolidine
Alternative Names: [azolidene, butylenimine]
Formula: C4H9N
Critical Pressure: 4613000 Pa
Critical Temperature: 568,6 K
Molar Critical Volume: 248,7 cm3/mol
Melting Point: 215,3 K
Boiling Point: 359,7 K
Molecular Weight: 71,12218
Acentric Factor: 0,275
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pyrrole

Fluid Type: Pure Newtonian Fluid
Fluid Name: pyrrole
Alternative Names: []
Formula: C4H5N
Critical Pressure: 6210000 Pa
Critical Temperature: 639,8 K
Molar Critical Volume: 230 cm3/mol
Melting Point: 249,7 K
Boiling Point: 403 K
Molecular Weight: 67,09
Acentric Factor: 0,288
Ideal Gas Specific Heat Coefficients: [Undefined]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

pyridine

Fluid Type: Pure Newtonian Fluid
Fluid Name: pyridine
Alternative Names: []
Formula: C5H5N
Critical Pressure: 5670000 Pa
Critical Temperature: 620 K
Molar Critical Volume: 254 cm3/mol
Melting Point: 231,4 K
Boiling Point: 388,37 K
Molecular Weight: 79,101
Acentric Factor: 0,242
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pyrene

Fluid Type: Pure Newtonian Fluid
Fluid Name: pyrene
Alternative Names: [benzophenanthrene]
Formula: C16H10
Critical Pressure: 2721000 Pa
Critical Temperature: 938,2 K
Molar Critical Volume: 626 cm3/mol
Melting Point: 423 K
Boiling Point: 666 K
Molecular Weight: 202,255
Acentric Factor: 0,83
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

p-xylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-xylene
Alternative Names: [1,4-dimethylbenzene]
Formula: C8H10
Critical Pressure: 3510000 Pa
Critical Temperature: 616,2 K
Molar Critical Volume: 379 cm3/mol
Melting Point: 286,4 K
Boiling Point: 411,5 K
Molecular Weight: 106,168
Acentric Factor: 0,32
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-toluidine

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-toluidine
Alternative Names: []
Formula: C7H9N
Critical Pressure: 4000000 Pa
Critical Temperature: 693,15 K
Molar Critical Volume: 373 cm3/mol
Melting Point: 316,9 K
Boiling Point: 473,4 K
Molecular Weight: 107,155
Acentric Factor: 0,476
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-toluic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-toluic acid
Alternative Names: []
Formula: C8H8O2
Critical Pressure: 3860000 Pa
Critical Temperature: 773 K
Molar Critical Volume: 397 cm3/mol
Melting Point: 452,8 K
Boiling Point: 548,2 K
Molecular Weight: 136,15
Acentric Factor: 0,661
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-tert-octylphenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-tert-octylphenol
Alternative Names: [p-(1,1,3,3-tetramethylbutyl)phenol]
Formula: C14H22O
Critical Pressure: 2280000 Pa
Critical Temperature: 765 K
Molar Critical Volume: 704 cm3/mol
Melting Point: 358,55 K
Boiling Point: 563,6 K
Molecular Weight: 206,328
Acentric Factor: 0,631
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-terphenyl

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-terphenyl
Alternative Names: [3-phenylbiphenyl, p-diphenylbenzene, santowax p]
Formula: C18H14
Critical Pressure: 3324000 Pa
Critical Temperature: 925,95 K
Molar Critical Volume: 762,6 cm3/mol
Melting Point: 485 K
Boiling Point: 649,15 K
Molecular Weight: 230,309
Acentric Factor: 0,528
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

PSA Lube Oil

Fluid Type: Simple Newtonian Fluid
Fluid Name: PSA Lube Oil
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

propyl-sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl-sulfide
Alternative Names: []
Formula: C6H14S
Critical Pressure: 3167000 Pa
Critical Temperature: 609,73 K
Molar Critical Volume: 425,5 cm3/mol
Melting Point: 170,45 K
Boiling Point: 416 K
Molecular Weight: 118,237
Acentric Factor: 0,376
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propyleneimine

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyleneimine
Alternative Names: []
Formula: C3H7N
Critical Pressure: 5420000 Pa
Critical Temperature: 529 K
Molar Critical Volume: 208 cm3/mol
Melting Point: 229 K
Boiling Point: 334 K
Molecular Weight: 57,095
Acentric Factor: 0,257
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

propylene glycol 35% mix

Fluid Type: Simple Newtonian Fluid
Fluid Name: propylene glycol 35% mix
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

propylene dichloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: propylene dichloride
Alternative Names: [1,2-dichloropropane]
Formula: C3H6CI2
Critical Pressure: 4450000 Pa
Critical Temperature: 577 K
Molar Critical Volume: 226 cm3/mol
Melting Point: 172,7 K
Boiling Point: 369,43 K
Molecular Weight: 112,987
Acentric Factor: 0,255
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propylene dibromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: propylene dibromide
Alternative Names: [1,2-dibromopropane]
Formula: C3H6Br2
Critical Pressure: 5410000 Pa
Critical Temperature: 634 K
Molar Critical Volume: 321,5 cm3/mol
Melting Point: 218 K
Boiling Point: 413,2 K
Molecular Weight: 201,888
Acentric Factor: 0,384
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: propylene
Alternative Names: [propene]
Formula: C3H6
Critical Pressure: 4600000 Pa
Critical Temperature: 364,9 K
Molar Critical Volume: 181 cm3/mol
Melting Point: 87,9 K
Boiling Point: 225,3 K
Molecular Weight: 42,081
Acentric Factor: 0,144
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propyl-disulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl-disulfide
Alternative Names: []
Formula: C6H14S2
Critical Pressure: 2750000 Pa
Critical Temperature: 673 K
Molar Critical Volume: 479,5 cm3/mol
Melting Point: 187,68 K
Boiling Point: 464,65 K
Molecular Weight: 150,297
Acentric Factor: 0,37
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: propylamine
Alternative Names: [monopropylamine, n-propylamine, propanamine]
Formula: C3H9N
Critical Pressure: 4810000 Pa
Critical Temperature: 497 K
Molar Critical Volume: 233 cm3/mol
Melting Point: 190 K
Boiling Point: 321,7 K
Molecular Weight: 59,112
Acentric Factor: 0,303
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl mercaptan
Alternative Names: [propanethiol]
Formula: C3H8S
Critical Pressure: 4630000 Pa
Critical Temperature: 536 K
Molar Critical Volume: 254 cm3/mol
Melting Point: 160 K
Boiling Point: 340,9 K
Molecular Weight: 76,163
Acentric Factor: 0,235
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

propyl iodide

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl iodide
Alternative Names: []
Formula: C3H7I
Critical Pressure: 4280000 Pa
Critical Temperature: 589,4 K
Molar Critical Volume: 291,5 cm3/mol
Melting Point: 172 K
Boiling Point: 375,6 K
Molecular Weight: 169,993
Acentric Factor: 0,224
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl chloride
Alternative Names: [1-chloropropane]
Formula: C3H7Cl
Critical Pressure: 4580000 Pa
Critical Temperature: 503 K
Molar Critical Volume: 254 cm3/mol
Melting Point: 150,4 K
Boiling Point: 320,4 K
Molecular Weight: 78,542
Acentric Factor: 0,235
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propyl formate

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl formate
Alternative Names: []
Formula: C4H8O2
Critical Pressure: 4063000 Pa
Critical Temperature: 538 K
Molar Critical Volume: 285 cm3/mol
Melting Point: 180,3 K
Boiling Point: 354 K
Molecular Weight: 88,106
Acentric Factor: 0,318
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propyl fluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl fluoride
Alternative Names: [1-fluoropropane]
Formula: C3H7F
Critical Pressure: 4157000 Pa
Critical Temperature: 422 K
Molar Critical Volume: 221,5 cm3/mol
Melting Point: 114,2 K
Boiling Point: 270 K
Molecular Weight: 62,087
Acentric Factor: 0,227
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

propyl cyclopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl cyclopentane
Alternative Names: [n-propylcyclopentane]
Formula: C8H16
Critical Pressure: 3000000 Pa
Critical Temperature: 603 K
Molar Critical Volume: 425 cm3/mol
Melting Point: 155,8 K
Boiling Point: 404,1 K
Molecular Weight: 112,216
Acentric Factor: 0,335
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propyl cyanide

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl cyanide
Alternative Names: [1-cyanopropane, butyric acid nitrile, butyronitrile]
Formula: C4H7N
Critical Pressure: 3880000 Pa
Critical Temperature: 585,4 K
Molar Critical Volume: 285,5 cm3/mol
Melting Point: 161,2 K
Boiling Point: 390,7 K
Molecular Weight: 69,106
Acentric Factor: 0,373
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propyl bromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl bromide
Alternative Names: [1-bromopropane]
Formula: C3H7Br
Critical Pressure: 5390000 Pa
Critical Temperature: 544 K
Molar Critical Volume: 266 cm3/mol
Melting Point: 163 K
Boiling Point: 244,2 K
Molecular Weight: 122,992
Acentric Factor: 0,285
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: propyl acetate
Alternative Names: [n-propyl acetate]
Formula: C5H10O2
Critical Pressure: 3360000 Pa
Critical Temperature: 549,7 K
Molar Critical Volume: 374,6 cm3/mol
Melting Point: 180 K
Boiling Point: 374,7 K
Molecular Weight: 102,133
Acentric Factor: 0,391
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

proprionic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: proprionic acid
Alternative Names: [carboxyethane, ethylformic acid]
Formula: C3H6O2
Critical Pressure: 5400000 Pa
Critical Temperature: 612 K
Molar Critical Volume: 222 cm3/mol
Melting Point: 252,5 K
Boiling Point: 414,5 K
Molecular Weight: 74,08
Acentric Factor: 0,52
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

propionitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: propionitrile
Alternative Names: [cyanoethane]
Formula: C3H5N
Critical Pressure: 4180000 Pa
Critical Temperature: 564,4 K
Molar Critical Volume: 229 cm3/mol
Melting Point: 180,3 K
Boiling Point: 370,3 K
Molecular Weight: 55,08
Acentric Factor: 0,313
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propionic anhydride

Fluid Type: Pure Newtonian Fluid
Fluid Name: propionic anhydride
Alternative Names: []
Formula: C6H10O3
Critical Pressure: 3340000 Pa
Critical Temperature: 618 K
Molar Critical Volume: 396 cm3/mol
Melting Point: 228,2 K
Boiling Point: 442,2 K
Molecular Weight: 130,144
Acentric Factor: 0,618
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propargyl alcohol

Fluid Type: Pure Newtonian Fluid
Fluid Name: propargyl alcohol
Alternative Names: []
Formula: C3H4O
Critical Pressure: 6530000 Pa
Critical Temperature: 580 K
Molar Critical Volume: 176 cm3/mol
Melting Point: 221,4 K
Boiling Point: 386,8 K
Molecular Weight: 56,064
Acentric Factor: 0,555
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

propanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: propanol
Alternative Names: [propyl alcohol, n-propanol]
Formula: C3H8O
Critical Pressure: 5175000 Pa
Critical Temperature: 536,8 K
Molar Critical Volume: 219 cm3/mol
Melting Point: 147 K
Boiling Point: 370,93 K
Molecular Weight: 60,096
Acentric Factor: 0,629
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propane-butane mix 80-20

Fluid Type: Mixture defined as mass percent
Fluid Name: propane-butane mix 80-20
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

propane-butane mix - 30/70

Fluid Type: Mixture defined as mole percent
Fluid Name: propane-butane mix - 30/70
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

Propane/Butane Mix - 30/70

Fluid Type: Mixture defined as mole percent
Fluid Name: Propane/Butane Mix - 30/70
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

propane

Fluid Type: Pure Newtonian Fluid
Fluid Name: propane
Alternative Names: []
Formula: C3H8
Critical Pressure: 4248000 Pa
Critical Temperature: 369,8 K
Molar Critical Volume: 200 cm3/mol
Melting Point: 91,5 K
Boiling Point: 231,02 K
Molecular Weight: 44,097
Acentric Factor: 0,152
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

propadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: propadiene
Alternative Names: []
Formula: C3H4
Critical Pressure: 5250000 Pa
Critical Temperature: 394 K
Molar Critical Volume: 162 cm3/mol
Melting Point: 136,9 K
Boiling Point: 238,77 K
Molecular Weight: 40,065
Acentric Factor: 0,313
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-phenylenediamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-phenylenediamine
Alternative Names: []
Formula: C6H8N2
Critical Pressure: 5180000 Pa
Critical Temperature: 796 K
Molar Critical Volume: 317 cm3/mol
Melting Point: 413 K
Boiling Point: 540 K
Molecular Weight: 108,143
Acentric Factor: 0,539
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-phenetidine

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-phenetidine
Alternative Names: [4-ethoxybenzenamine, p-aminophenetole, p-ethoxylaniline]
Formula: C8H11NO
Critical Pressure: 3617302,5 Pa
Critical Temperature: 754 K
Molar Critical Volume: 446 cm3/mol
Melting Point: 227 K
Boiling Point: 528 K
Molecular Weight: 137,181
Acentric Factor: 0,376
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-nitrotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-nitrotoluene
Alternative Names: []
Formula: C7H7NO2
Critical Pressure: 3800000 Pa
Critical Temperature: 736 K
Molar Critical Volume: 441 cm3/mol
Melting Point: 324,8 K
Boiling Point: 511,7 K
Molecular Weight: 137,138
Acentric Factor: 0,541
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-nitroaniline

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-nitroaniline
Alternative Names: []
Formula: C6H6N2O2
Critical Pressure: 4420000 Pa
Critical Temperature: 851 K
Molar Critical Volume: 406 cm3/mol
Melting Point: 420,7 K
Boiling Point: 609,2 K
Molecular Weight: 138,126
Acentric Factor: 0,782
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

plynn

Fluid Type: Mixture defined as mass percent
Fluid Name: plynn
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

plyn

Fluid Type: Mixture defined as mole percent
Fluid Name: plyn
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

piperidine

Fluid Type: Pure Newtonian Fluid
Fluid Name: piperidine
Alternative Names: []
Formula: C5H11N
Critical Pressure: 4760000 Pa
Critical Temperature: 594 K
Molar Critical Volume: 289 cm3/mol
Melting Point: 262,7 K
Boiling Point: 379,6 K
Molecular Weight: 85,15
Acentric Factor: 0,251
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

piperazine

Fluid Type: Pure Newtonian Fluid
Fluid Name: piperazine
Alternative Names: []
Formula: C4H10N2
Critical Pressure: 5330000 Pa
Critical Temperature: 638 K
Molar Critical Volume: 310 cm3/mol
Melting Point: 379,2 K
Boiling Point: 419,2 K
Molecular Weight: 86,137
Acentric Factor: 0,414
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-chlorotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-chlorotoluene
Alternative Names: []
Formula: C7H7Cl
Critical Pressure: 3910000 Pa
Critical Temperature: 660 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 280,7 K
Boiling Point: 435,7 K
Molecular Weight: 126,585
Acentric Factor: 0,313
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-chloronitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-chloronitrobenzene
Alternative Names: []
Formula: C6H4ClN02
Critical Pressure: 3980000 Pa
Critical Temperature: 751 K
Molar Critical Volume: 432 cm3/mol
Melting Point: 356,7 K
Boiling Point: 515,2 K
Molecular Weight: 157,556
Acentric Factor: 0,4916
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-chlorobenzotrifluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-chlorobenzotrifluoride
Alternative Names: []
Formula: C7H4ClF3
Critical Pressure: 3010000 Pa
Critical Temperature: 601 K
Molar Critical Volume: 399 cm3/mol
Melting Point: 237,2 K
Boiling Point: 412,2 K
Molecular Weight: 180,557
Acentric Factor: 0,373
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

phthalic anhydride

Fluid Type: Pure Newtonian Fluid
Fluid Name: phthalic anhydride
Alternative Names: []
Formula: C8H4O3
Critical Pressure: 4720000 Pa
Critical Temperature: 791 K
Molar Critical Volume: 421 cm3/mol
Melting Point: 404,3 K
Boiling Point: 557,7 K
Molecular Weight: 148,118
Acentric Factor: 0,708
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

phthalic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: phthalic acid
Alternative Names: []
Formula: C8H6O4
Critical Pressure: 3950000 Pa
Critical Temperature: 800 K
Molar Critical Volume: 424 cm3/mol
Melting Point: 464,2 K
Boiling Point: 598 K
Molecular Weight: 166,133
Acentric Factor: 1,059
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

phosphoric acid 80%

Fluid Type: Simple Newtonian Fluid
Fluid Name: phosphoric acid 80%
Alternative Names: []
Formula: H3PO4
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

phosgene

Fluid Type: Pure Newtonian Fluid
Fluid Name: phosgene
Alternative Names: []
Formula: CCl2O
Critical Pressure: 5670000 Pa
Critical Temperature: 455 K
Molar Critical Volume: 190,1 cm3/mol
Melting Point: 145 K
Boiling Point: 281 K
Molecular Weight: 98,916
Acentric Factor: 0,205
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

phenylhydrazine

Fluid Type: Pure Newtonian Fluid
Fluid Name: phenylhydrazine
Alternative Names: []
Formula: C6H8N2
Critical Pressure: 4910000 Pa
Critical Temperature: 761 K
Molar Critical Volume: 418 cm3/mol
Melting Point: 292,4 K
Boiling Point: 516,7 K
Molecular Weight: 108,143
Acentric Factor: 0,535
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

phenyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: phenyl mercaptan
Alternative Names: []
Formula: C6H6S
Critical Pressure: 4740000 Pa
Critical Temperature: 689 K
Molar Critical Volume: 315 cm3/mol
Melting Point: 258,3 K
Boiling Point: 442,3 K
Molecular Weight: 110,18
Acentric Factor: 0,263
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

phenyl isocyanate

Fluid Type: Pure Newtonian Fluid
Fluid Name: phenyl isocyanate
Alternative Names: []
Formula: C7H5NO
Critical Pressure: 4060000 Pa
Critical Temperature: 648 K
Molar Critical Volume: 341 cm3/mol
Melting Point: 243,2 K
Boiling Point: 438,8 K
Molecular Weight: 119,123
Acentric Factor: 0,438
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

phenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: phenol
Alternative Names: [carbolic acid]
Formula: C6H6O
Critical Pressure: 6130000 Pa
Critical Temperature: 694,2 K
Molar Critical Volume: 229 cm3/mol
Melting Point: 314 K
Boiling Point: 455 K
Molecular Weight: 94,1128
Acentric Factor: 0,438
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

phenetole

Fluid Type: Pure Newtonian Fluid
Fluid Name: phenetole
Alternative Names: []
Formula: C8H10O
Critical Pressure: 3425000 Pa
Critical Temperature: 647,15 K
Molar Critical Volume: 390 cm3/mol
Melting Point: 243,6 K
Boiling Point: 443,2 K
Molecular Weight: 122,167
Acentric Factor: 0,415
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-fluorotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-fluorotoluene
Alternative Names: []
Formula: C7H7F
Critical Pressure: 3815000 Pa
Critical Temperature: 590,48 K
Molar Critical Volume: 337,5 cm3/mol
Melting Point: 216,4 K
Boiling Point: 389,8 K
Molecular Weight: 110,131
Acentric Factor: 0,311
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

petroleum oil API 790

Fluid Type: Simple Newtonian Fluid
Fluid Name: petroleum oil API 790
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

petroleum 48° API crude

Fluid Type: Simple Newtonian Fluid
Fluid Name: petroleum 48° API crude
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

petroleum 40° API crude

Fluid Type: Simple Newtonian Fluid
Fluid Name: petroleum 40° API crude
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

petroleum 35.6° API crude

Fluid Type: Simple Newtonian Fluid
Fluid Name: petroleum 35.6° API crude
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

petroleum 32.6° API crude

Fluid Type: Simple Newtonian Fluid
Fluid Name: petroleum 32.6° API crude
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

p-ethyltoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-ethyltoluene
Alternative Names: [1-methyl-4-ethylbenzene]
Formula: C9H12
Critical Pressure: 2940000 Pa
Critical Temperature: 640 K
Molar Critical Volume: 470 cm3/mol
Melting Point: 210,8 K
Boiling Point: 435,2 K
Molecular Weight: 120,195
Acentric Factor: 0,322
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

p-ethylphenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-ethylphenol
Alternative Names: [4-ETHYLPHENOL, 1-ETHYL-4-HYDROXYBENZENE]
Formula: C8H10O
Critical Pressure: 4346842,5 Pa
Critical Temperature: 716,45 K
Molar Critical Volume: 387 cm3/mol
Melting Point: 318,23 K
Boiling Point: 491,14 K
Molecular Weight: 122,167
Acentric Factor: 0,524
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

perchloryl fluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: perchloryl fluoride
Alternative Names: []
Formula: ClFO3
Critical Pressure: 5370000 Pa
Critical Temperature: 368,4 K
Molar Critical Volume: 160,8 cm3/mol
Melting Point: 125,6 K
Boiling Point: 226,4 K
Molecular Weight: 102,448
Acentric Factor: 0,17
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

perchlorobutadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: perchlorobutadiene
Alternative Names: [1,1,2,3,4,4-hexachloro-1,3-butadiene]
Formula: C4Cl6
Critical Pressure: 2840000 Pa
Critical Temperature: 741 K
Molar Critical Volume: 491 cm3/mol
Melting Point: 252,2 K
Boiling Point: 488,2 K
Molecular Weight: 260,76
Acentric Factor: 0,155
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

perchloric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: perchloric acid
Alternative Names: []
Formula: ClHO4
Critical Pressure: 3860000 Pa
Critical Temperature: 631 K
Molar Critical Volume: 168 cm3/mol
Melting Point: 171,95 K
Boiling Point: 385 K
Molecular Weight: 100,458
Acentric Factor: 0,05
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Lucas]
Two-Phase Properties: [Data Provided]

pentyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentyne
Alternative Names: [propyl acetylene]
Formula: C5H8
Critical Pressure: 4050000 Pa
Critical Temperature: 493,5 K
Molar Critical Volume: 278 cm3/mol
Melting Point: 183 K
Boiling Point: 313,3 K
Molecular Weight: 68,1182
Acentric Factor: 0,164
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pentyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentyl mercaptan
Alternative Names: []
Formula: C5H12S
Critical Pressure: 3470000 Pa
Critical Temperature: 598 K
Molar Critical Volume: 359 cm3/mol
Melting Point: 197,5 K
Boiling Point: 399,8 K
Molecular Weight: 104,216
Acentric Factor: 0,321
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentene
Alternative Names: [1-pentene]
Formula: C5H10
Critical Pressure: 3530000 Pa
Critical Temperature: 464,8 K
Molar Critical Volume: 300 cm3/mol
Melting Point: 107,9 K
Boiling Point: 303,1 K
Molecular Weight: 70,135
Acentric Factor: 0,233
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pentanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentanol
Alternative Names: [n-amyl alcohol]
Formula: C5H12O
Critical Pressure: 3910000 Pa
Critical Temperature: 588,2 K
Molar Critical Volume: 326 cm3/mol
Melting Point: 195 K
Boiling Point: 411,1 K
Molecular Weight: 88,15
Acentric Factor: 0,579
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentane
Alternative Names: [n-pentane, pentyl hydride]
Formula: C5H12
Critical Pressure: 3370000 Pa
Critical Temperature: 469,7 K
Molar Critical Volume: 311 cm3/mol
Melting Point: 143,4 K
Boiling Point: 309,21 K
Molecular Weight: 72,1489
Acentric Factor: 0,251
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pentachloroethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentachloroethane
Alternative Names: []
Formula: C2HCl5
Critical Pressure: 3680000 Pa
Critical Temperature: 665 K
Molar Critical Volume: 369 cm3/mol
Melting Point: 244,2 K
Boiling Point: 433 K
Molecular Weight: 202,293
Acentric Factor: 0,246
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pentaethylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentaethylbenzene
Alternative Names: [1-pentaethylbenzene, benzene]
Formula: C16H26
Critical Pressure: 1622000 Pa
Critical Temperature: 723,64 K
Molar Critical Volume: 823,5 cm3/mol
Melting Point: 327,66 K
Boiling Point: 550,16 K
Molecular Weight: 218,381
Acentric Factor: 0,637
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pentadecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentadecene
Alternative Names: [n-pentadecene]
Formula: C15H30
Critical Pressure: 1450000 Pa
Critical Temperature: 704 K
Molar Critical Volume: 856,5 cm3/mol
Melting Point: 269,4 K
Boiling Point: 541,5 K
Molecular Weight: 210,402
Acentric Factor: 0,682
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pentadecanoic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentadecanoic acid
Alternative Names: [n-pentadecanoic acid, pentadecylic acid]
Formula: C15H30O2
Critical Pressure: 1600000 Pa
Critical Temperature: 766 K
Molar Critical Volume: 864 cm3/mol
Melting Point: 325,68 K
Boiling Point: 612,05 K
Molecular Weight: 242,402
Acentric Factor: 1,04
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

pentadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: pentadecane
Alternative Names: [n-pentadecane]
Formula: C15H32
Critical Pressure: 1520000 Pa
Critical Temperature: 707 K
Molar Critical Volume: 880 cm3/mol
Melting Point: 283 K
Boiling Point: 543,8 K
Molecular Weight: 212,421
Acentric Factor: 0,706
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Peanut Butter

Fluid Name: Peanut Butter
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

peach puree (12%) as HB

Fluid Name: peach puree (12%) as HB
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Herschel Bulkley]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

peach puree (12%) as Casson

Fluid Name: peach puree (12%) as Casson
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Casson]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

peach puree (12%)

Fluid Name: peach puree (12%)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

p-dinitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-dinitrobenzene
Alternative Names: []
Formula: C6H4N2O4
Critical Pressure: 3850000 Pa
Critical Temperature: 803 K
Molar Critical Volume: 434 cm3/mol
Melting Point: 446,6 K
Boiling Point: 572 K
Molecular Weight: 168,109
Acentric Factor: 0,686
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

p-dichlorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-dichlorobenzene
Alternative Names: []
Formula: C6H4Cl2
Critical Pressure: 4070000 Pa
Critical Temperature: 684,75 K
Molar Critical Volume: 351 cm3/mol
Melting Point: 326,1 K
Boiling Point: 447,2 K
Molecular Weight: 147,003
Acentric Factor: 0,285
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-difluorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-difluorobenzene
Alternative Names: []
Formula: C6H4F2
Critical Pressure: 4400000 Pa
Critical Temperature: 556 K
Molar Critical Volume: 299,5 cm3/mol
Melting Point: 260,2 K
Boiling Point: 362 K
Molecular Weight: 114,094
Acentric Factor: 0,299
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-cymene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-cymene
Alternative Names: [p-isopropyl toluene, p-methyl cumene]
Formula: C10H14
Critical Pressure: 2800000 Pa
Critical Temperature: 652 K
Molar Critical Volume: 497 cm3/mol
Melting Point: 204,2 K
Boiling Point: 450,3 K
Molecular Weight: 134,221
Acentric Factor: 0,37
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

p-cumylphenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-cumylphenol
Alternative Names: [4-(1-methyl-1-phenethyl)phenol, p-(alpha-Cumenyl)phenol, phenol, 4-(1-methyl-1-phenylethyl)-]
Formula: C15H16O
Critical Pressure: 2680000 Pa
Critical Temperature: 834 K
Molar Critical Volume: 659 cm3/mol
Melting Point: 346 K
Boiling Point: 608,15 K
Molecular Weight: 212,291
Acentric Factor: 0,66
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]

p-cresol

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-cresol
Alternative Names: [4-methylphenol, p-cresylic acid]
Formula: C7H8O
Critical Pressure: 5150000 Pa
Critical Temperature: 704,6 K
Molar Critical Volume: 277 cm3/mol
Melting Point: 308,9 K
Boiling Point: 475,1 K
Molecular Weight: 108,14
Acentric Factor: 0,505
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

p-bromotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: p-bromotoluene
Alternative Names: []
Formula: C7H7Br
Critical Pressure: 4370000 Pa
Critical Temperature: 699 K
Molar Critical Volume: 379 cm3/mol
Melting Point: 300 K
Boiling Point: 457,6 K
Molecular Weight: 171,037
Acentric Factor: 0,318
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Paratherm NF

Fluid Type: Simple Newtonian Fluid
Fluid Name: Paratherm NF
Alternative Names: []
Formula: Heat Transfer Fluid
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Paratherm HE

Fluid Type: Simple Newtonian Fluid
Fluid Name: Paratherm HE
Alternative Names: []
Formula: Heat Transfer Fluid
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

ozone

Fluid Type: Pure Newtonian Fluid
Fluid Name: ozone
Alternative Names: []
Formula: O3
Critical Pressure: 5570000 Pa
Critical Temperature: 261,1 K
Molar Critical Volume: 88,9 cm3/mol
Melting Point: 80,5 K
Boiling Point: 181,2 K
Molecular Weight: 47,9982
Acentric Factor: 0,1947
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

o-xylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-xylene
Alternative Names: [1,2-dimethylbenzene, o-dimethylbenzene, o-methyltoluene]
Formula: C8H10
Critical Pressure: 3730000 Pa
Critical Temperature: 630,3 K
Molar Critical Volume: 369 cm3/mol
Melting Point: 248 K
Boiling Point: 417,6 K
Molecular Weight: 106,168
Acentric Factor: 0,31
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

oxygen

Fluid Type: Pure Newtonian Fluid
Fluid Name: oxygen
Alternative Names: []
Formula: O2
Critical Pressure: 5043000 Pa
Critical Temperature: 154,6 K
Molar Critical Volume: 73,4 cm3/mol
Melting Point: 54,4 K
Boiling Point: 90,2 K
Molecular Weight: 31,9988
Acentric Factor: 0,025
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

oxalic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: oxalic acid
Alternative Names: []
Formula: C2H2O4
Critical Pressure: 7020000 Pa
Critical Temperature: 804 K
Molar Critical Volume: 205 cm3/mol
Melting Point: 462,7 K
Boiling Point: 569 K
Molecular Weight: 90,036
Acentric Factor: 0,918
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

oxalate slurry (N)

Fluid Type: Simple Newtonian Fluid
Fluid Name: oxalate slurry (N)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

o-toluidine

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-toluidine
Alternative Names: []
Formula: C7H9N
Critical Pressure: 3749000 Pa
Critical Temperature: 694,15 K
Molar Critical Volume: 373 cm3/mol
Melting Point: 249,5 K
Boiling Point: 473,6 K
Molecular Weight: 107,155
Acentric Factor: 0,442
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-toluic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-toluic acid
Alternative Names: []
Formula: C8H8O2
Critical Pressure: 3860000 Pa
Critical Temperature: 751 K
Molar Critical Volume: 397 cm3/mol
Melting Point: 376,9 K
Boiling Point: 532 K
Molecular Weight: 136,15
Acentric Factor: 0,657
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-phenylenediamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-phenylenediamine
Alternative Names: []
Formula: C6H8N2
Critical Pressure: 5180000 Pa
Critical Temperature: 781 K
Molar Critical Volume: 315 cm3/mol
Melting Point: 377 K
Boiling Point: 525 K
Molecular Weight: 108,143
Acentric Factor: 0,494
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-nitrotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-nitrotoluene
Alternative Names: []
Formula: C7H7NO2
Critical Pressure: 3800000 Pa
Critical Temperature: 720 K
Molar Critical Volume: 441 cm3/mol
Melting Point: 270 K
Boiling Point: 495,6 K
Molecular Weight: 137,138
Acentric Factor: 0,482
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-nitroaniline

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-nitroaniline
Alternative Names: []
Formula: C6H6N2O2
Critical Pressure: 4420000 Pa
Critical Temperature: 784 K
Molar Critical Volume: 406 cm3/mol
Melting Point: 344,7 K
Boiling Point: 558 K
Molecular Weight: 138,126
Acentric Factor: 0,741
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

oleic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: oleic acid
Alternative Names: [9-octadecenoic acid, metaupon, ooleoate, red oil]
Formula: C18H34O2
Critical Pressure: 1390000 Pa
Critical Temperature: 781 K
Molar Critical Volume: 1000 cm3/mol
Melting Point: 286,53 K
Boiling Point: 633 K
Molecular Weight: 282,467
Acentric Factor: 1,187
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

oil for shoham example

Fluid Type: Simple Newtonian Fluid
Fluid Name: oil for shoham example
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

o-chlorotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-chlorotoluene
Alternative Names: []
Formula: C7H7Cl
Critical Pressure: 3910000 Pa
Critical Temperature: 656 K
Molar Critical Volume: 354 cm3/mol
Melting Point: 236,7 K
Boiling Point: 432,3 K
Molecular Weight: 126,585
Acentric Factor: 0,304
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-chloronitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-chloronitrobenzene
Alternative Names: []
Formula: C6H4ClNO2
Critical Pressure: 3980000 Pa
Critical Temperature: 757 K
Molar Critical Volume: 432 cm3/mol
Melting Point: 306,2 K
Boiling Point: 519 K
Molecular Weight: 157,556
Acentric Factor: 0,483
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-chlorobenzoic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-chlorobenzoic acid
Alternative Names: []
Formula: C7H5ClO2
Critical Pressure: 4030000 Pa
Critical Temperature: 792 K
Molar Critical Volume: 383 cm3/mol
Melting Point: 415,2 K
Boiling Point: 560,2 K
Molecular Weight: 156,568
Acentric Factor: 0,664
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

o-chloroaniline

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-chloroaniline
Alternative Names: []
Formula: C6H6ClN
Critical Pressure: 4590000 Pa
Critical Temperature: 722 K
Molar Critical Volume: 364 cm3/mol
Melting Point: 271 K
Boiling Point: 482 K
Molecular Weight: 127,573
Acentric Factor: 0,425
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-ethyltoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-ethyltoluene
Alternative Names: [1-methyl-2-ehtlybenzene]
Formula: C9H12
Critical Pressure: 3040000 Pa
Critical Temperature: 651 K
Molar Critical Volume: 460 cm3/mol
Melting Point: 192,3 K
Boiling Point: 438,3 K
Molecular Weight: 120,195
Acentric Factor: 0,294
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

o-ethylaniline

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-ethylaniline
Alternative Names: [2-ethylaniline, 2-ethylbenzenamine, o-aminoethylbenzene]
Formula: C8H11N
Critical Pressure: 3789555 Pa
Critical Temperature: 704 K
Molar Critical Volume: 399 cm3/mol
Melting Point: 226,55 K
Boiling Point: 482,65 K
Molecular Weight: 121,182
Acentric Factor: 0,463
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-dinitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-dinitrobenzene
Alternative Names: []
Formula: C6H4N2O4
Critical Pressure: 3850000 Pa
Critical Temperature: 831 K
Molar Critical Volume: 434 cm3/mol
Melting Point: 390,1 K
Boiling Point: 592 K
Molecular Weight: 168,109
Acentric Factor: 0,687
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-dichlorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-dichlorobenzene
Alternative Names: [1,2-dichlorobenzene]
Formula: C6H4Cl2
Critical Pressure: 4100000 Pa
Critical Temperature: 729 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 256,1 K
Boiling Point: 452 K
Molecular Weight: 147,004
Acentric Factor: 0,272
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-difluorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-difluorobenzene
Alternative Names: []
Formula: C6H4F2
Critical Pressure: 4067000 Pa
Critical Temperature: 554,46 K
Molar Critical Volume: 299,5 cm3/mol
Melting Point: 239,2 K
Boiling Point: 364,7 K
Molecular Weight: 114,094
Acentric Factor: 0,32
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

octyl-disulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: octyl-disulfide
Alternative Names: [di-n-octyl disulfide, n-octyldisulfide]
Formula: C16H34S2
Critical Pressure: 1352000 Pa
Critical Temperature: 784,46 K
Molar Critical Volume: 1039,5 cm3/mol
Melting Point: 244,16 K
Boiling Point: 619,16 K
Molecular Weight: 290,565
Acentric Factor: 0,806
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

octene

Fluid Type: Pure Newtonian Fluid
Fluid Name: octene
Alternative Names: [caprylene, 1-octene]
Formula: C8H16
Critical Pressure: 2620000 Pa
Critical Temperature: 566,7 K
Molar Critical Volume: 464 cm3/mol
Melting Point: 171,4 K
Boiling Point: 394,4 K
Molecular Weight: 112,216
Acentric Factor: 0,386
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

octanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: octanol
Alternative Names: [1-octanol, heptyl carbinol]
Formula: C8H180
Critical Pressure: 2860000 Pa
Critical Temperature: 652,5 K
Molar Critical Volume: 490 cm3/mol
Melting Point: 257,7 K
Boiling Point: 468,3 K
Molecular Weight: 130,231
Acentric Factor: 0,587
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

octane

Fluid Type: Pure Newtonian Fluid
Fluid Name: octane
Alternative Names: [n-octane]
Formula: C8H18
Critical Pressure: 2490000 Pa
Critical Temperature: 568,7 K
Molar Critical Volume: 492 cm3/mol
Melting Point: 216,3 K
Boiling Point: 398,8 K
Molecular Weight: 114,23
Acentric Factor: 0,398
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

octanal

Fluid Type: Pure Newtonian Fluid
Fluid Name: octanal
Alternative Names: [1-octanol, heptyl carbinol]
Formula: C8H180
Critical Pressure: 2860000 Pa
Critical Temperature: 652,5 K
Molar Critical Volume: 490 cm3/mol
Melting Point: 257,7 K
Boiling Point: 468,3 K
Molecular Weight: 130,231
Acentric Factor: 0,587
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

octafluoropropane

Fluid Type: Pure Newtonian Fluid
Fluid Name: octafluoropropane
Alternative Names: [freon 218]
Formula: C3F8
Critical Pressure: 2680000 Pa
Critical Temperature: 345 K
Molar Critical Volume: 299 cm3/mol
Melting Point: 125,5 K
Boiling Point: 236,4 K
Molecular Weight: 188,02
Acentric Factor: 0,3255
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

octafluorocyclobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: octafluorocyclobutane
Alternative Names: [freon 318, perfluorocyclobutane]
Formula: C4F8
Critical Pressure: 2278000 Pa
Critical Temperature: 388,4 K
Molar Critical Volume: 324,8 cm3/mol
Melting Point: 233 K
Boiling Point: 267,2 K
Molecular Weight: 200,031
Acentric Factor: 0,356
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

octafluoro-2-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: octafluoro-2-butene
Alternative Names: []
Formula: C4F8
Critical Pressure: 2330000 Pa
Critical Temperature: 392 K
Molar Critical Volume: 347 cm3/mol
Melting Point: 138,2 K
Boiling Point: 270,4 K
Molecular Weight: 200,031
Acentric Factor: 0,291
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

octadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: octadecane
Alternative Names: []
Formula: C18H38
Critical Pressure: 1290000 Pa
Critical Temperature: 747 K
Molar Critical Volume: 1189 cm3/mol
Melting Point: 301,3 K
Boiling Point: 589,5 K
Molecular Weight: 254,498
Acentric Factor: 0,79
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

o-cresol

Fluid Type: Pure Newtonian Fluid
Fluid Name: o-cresol
Alternative Names: [2-methylphenol, o-cresylic acid]
Formula: C7H8O
Critical Pressure: 5010000 Pa
Critical Temperature: 697,6 K
Molar Critical Volume: 282 cm3/mol
Melting Point: 302,9 K
Boiling Point: 464,2 K
Molecular Weight: 108,14
Acentric Factor: 0,433
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-undecylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-undecylbenzene
Alternative Names: [1-phenylundecane, undecanylbenzene]
Formula: C17H28
Critical Pressure: 1672000 Pa
Critical Temperature: 764 K
Molar Critical Volume: 910 cm3/mol
Melting Point: 268 K
Boiling Point: 586,4 K
Molecular Weight: 232,409
Acentric Factor: 0,738
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-tridecylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-tridecylbenzene
Alternative Names: [benzene, tridane, tridecyl-benzen, tridecylbenzol]
Formula: C19H32
Critical Pressure: 1500000 Pa
Critical Temperature: 783 K
Molar Critical Volume: 1060 cm3/mol
Melting Point: 283,15 K
Boiling Point: 614,43 K
Molecular Weight: 260,463
Acentric Factor: 0,844
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-tetradecanoic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-tetradecanoic acid
Alternative Names: [crodacid, n-myristic acid]
Formula: C14H28O2
Critical Pressure: 1700000 Pa
Critical Temperature: 756 K
Molar Critical Volume: 811 cm3/mol
Melting Point: 327,55 K
Boiling Point: 599,35 K
Molecular Weight: 228,375
Acentric Factor: 1,025
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-tetradecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-tetradecane
Alternative Names: []
Formula: C14H30
Critical Pressure: 1621000 Pa
Critical Temperature: 692,4 K
Molar Critical Volume: 842,8 cm3/mol
Melting Point: 279,01 K
Boiling Point: 526,73 K
Molecular Weight: 198,392
Acentric Factor: 0,662
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-propylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-propylbenzene
Alternative Names: [1-phenylpropane, isocumene]
Formula: C9H12
Critical Pressure: 3200000 Pa
Critical Temperature: 638,2 K
Molar Critical Volume: 440 cm3/mol
Melting Point: 173,7 K
Boiling Point: 432,4 K
Molecular Weight: 120,195
Acentric Factor: 0,344
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-propyl propionate

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-propyl propionate
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 3110000 Pa
Critical Temperature: 578 K
Molar Critical Volume: 389 cm3/mol
Melting Point: 197,3 K
Boiling Point: 395,7 K
Molecular Weight: 116,16
Acentric Factor: 0,376
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-propyl n-butyrate

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-propyl n-butyrate
Alternative Names: []
Formula: C7H14O2
Critical Pressure: 2800000 Pa
Critical Temperature: 594 K
Molar Critical Volume: 442 cm3/mol
Melting Point: 178 K
Boiling Point: 416,5 K
Molecular Weight: 130,187
Acentric Factor: 0,448
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-propionaldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-propionaldehyde
Alternative Names: [methyl actealdehyde, propanal, proprionic aldehyde]
Formula: C3H6O
Critical Pressure: 5270000 Pa
Critical Temperature: 504,4 K
Molar Critical Volume: 204 cm3/mol
Melting Point: 193 K
Boiling Point: 321 K
Molecular Weight: 58,0798
Acentric Factor: 0,313
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-pentylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-pentylbenzene
Alternative Names: [1-phenylpentane]
Formula: C11H16
Critical Pressure: 2600000 Pa
Critical Temperature: 679,9 K
Molar Critical Volume: 550 cm3/mol
Melting Point: 198 K
Boiling Point: 478,6 K
Molecular Weight: 148,247
Acentric Factor: 0,437
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-pentylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-pentylamine
Alternative Names: []
Formula: C5H13N
Critical Pressure: 3580000 Pa
Critical Temperature: 555 K
Molar Critical Volume: 365 cm3/mol
Melting Point: 218,2 K
Boiling Point: 377,7 K
Molecular Weight: 87,165
Acentric Factor: 0,407
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-pentyl formate

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-pentyl formate
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 3125000 Pa
Critical Temperature: 576 K
Molar Critical Volume: 389 cm3/mol
Melting Point: 199,7 K
Boiling Point: 406,6 K
Molecular Weight: 116,16
Acentric Factor: 0,528
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-pentyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-pentyl acetate
Alternative Names: []
Formula: C7H14O2
Critical Pressure: 2800000 Pa
Critical Temperature: 598 K
Molar Critical Volume: 442 cm3/mol
Melting Point: 202,4 K
Boiling Point: 422,2 K
Molecular Weight: 130,187
Acentric Factor: 0,49
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-pentadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-pentadecane
Alternative Names: [pentadecane]
Formula: C15H32
Critical Pressure: 1520000 Pa
Critical Temperature: 706,8 K
Molar Critical Volume: 880 cm3/mol
Melting Point: 283,11 K
Boiling Point: 543,83 K
Molecular Weight: 212,419
Acentric Factor: 0,705
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nonylphenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: nonylphenol
Alternative Names: []
Formula: C15H24O
Critical Pressure: 0 Pa
Critical Temperature: 0 K
Molar Critical Volume: 0 cm3/mol
Melting Point: 0 K
Boiling Point: 0 K
Molecular Weight: 0
Acentric Factor: 1
Ideal Gas Specific Heat Coefficients: [Undefined]
Liquid Density Definition: [Undefined]
Liquid Specific Heat Definition: [Undefined]
Liquid Thermal Conductivity Definition: [Undefined]
Liquid Viscosity Definition: [Undefined]
Vapor Pressure Definition: [Undefined]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

nonyl-disulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: nonyl-disulfide
Alternative Names: [di-n-nonyl disulfide, dinonyldisulfide, disulfide]
Formula: C18H38S2
Critical Pressure: 1179000 Pa
Critical Temperature: 802,3 K
Molar Critical Volume: 1151,5 cm3/mol
Melting Point: 252,16 K
Boiling Point: 642,16 K
Molecular Weight: 318,618
Acentric Factor: 0,832
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nonene

Fluid Type: Pure Newtonian Fluid
Fluid Name: nonene
Alternative Names: [nonylene]
Formula: C9H18
Critical Pressure: 2340000 Pa
Critical Temperature: 594 K
Molar Critical Volume: 526 cm3/mol
Melting Point: 191,8 K
Boiling Point: 420 K
Molecular Weight: 126,241
Acentric Factor: 0,43
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nonanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: nonanol
Alternative Names: [n-nonyl alcohol, octyl carbinol]
Formula: C9H20O
Critical Pressure: 2528000 Pa
Critical Temperature: 670,7 K
Molar Critical Volume: 572 cm3/mol
Melting Point: 268 K
Boiling Point: 486,52 K
Molecular Weight: 144,256
Acentric Factor: 0,52
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nonane

Fluid Type: Pure Newtonian Fluid
Fluid Name: nonane
Alternative Names: [n-nonane]
Formula: C9H20
Critical Pressure: 2290000 Pa
Critical Temperature: 594,6 K
Molar Critical Volume: 555 cm3/mol
Melting Point: 219,6 K
Boiling Point: 423,9 K
Molecular Weight: 128,25
Acentric Factor: 0,445
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nonadecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: nonadecene
Alternative Names: []
Formula: C19H38
Critical Pressure: 1110000 Pa
Critical Temperature: 755,1 K
Molar Critical Volume: 1106,5 cm3/mol
Melting Point: 297 K
Boiling Point: 601,7 K
Molecular Weight: 266,509
Acentric Factor: 0,747
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nonadecanoic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: nonadecanoic acid
Alternative Names: [carboxylic acid c19, nonadecansaure, nonadecylic acid]
Formula: C19H38O2
Critical Pressure: 1300000 Pa
Critical Temperature: 810 K
Molar Critical Volume: 1080 cm3/mol
Melting Point: 341,23 K
Boiling Point: 659,15 K
Molecular Weight: 298,51
Acentric Factor: 1,07
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nonadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: nonadecane
Alternative Names: []
Formula: C19H40
Critical Pressure: 1160000 Pa
Critical Temperature: 755 K
Molar Critical Volume: 1130 cm3/mol
Melting Point: 305,2 K
Boiling Point: 603 K
Molecular Weight: 268,525
Acentric Factor: 0,827
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-octadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-octadecane
Alternative Names: [octadecane]
Formula: C18H38
Critical Pressure: 1214000 Pa
Critical Temperature: 745,26 K
Molar Critical Volume: 1070 cm3/mol
Melting Point: 301,33 K
Boiling Point: 589,86 K
Molecular Weight: 254,5
Acentric Factor: 0,795
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-nonylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-nonylbenzene
Alternative Names: [1-phenylnonane, nonylbenzene]
Formula: C15H24
Critical Pressure: 1895000 Pa
Critical Temperature: 741 K
Molar Critical Volume: 790 cm3/mol
Melting Point: 249 K
Boiling Point: 555,2 K
Molecular Weight: 204,356
Acentric Factor: 0,638
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-methylpyrrolidine

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-methylpyrrolidine
Alternative Names: []
Formula: C5H11N
Critical Pressure: 4200000 Pa
Critical Temperature: 550 K
Molar Critical Volume: 298 cm3/mol
Melting Point: 183,15 K
Boiling Point: 352,3 K
Molecular Weight: 85,149
Acentric Factor: 0,227
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

n-methylpyrrole

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-methylpyrrole
Alternative Names: []
Formula: C5H7N
Critical Pressure: 4770000 Pa
Critical Temperature: 610 K
Molar Critical Volume: 283 cm3/mol
Melting Point: 216,9 K
Boiling Point: 385,9 K
Molecular Weight: 81,117
Acentric Factor: 0,213
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-methylcyclohexylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-methylcyclohexylamine
Alternative Names: []
Formula: C7H15N
Critical Pressure: 3490000 Pa
Critical Temperature: 622 K
Molar Critical Volume: 393 cm3/mol
Melting Point: 264,7 K
Boiling Point: 422 K
Molecular Weight: 113,203
Acentric Factor: 0,386
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-methylaniline

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-methylaniline
Alternative Names: []
Formula: C7H9N
Critical Pressure: 5198000 Pa
Critical Temperature: 701,55 K
Molar Critical Volume: 373 cm3/mol
Melting Point: 216,2 K
Boiling Point: 469 K
Molecular Weight: 107,155
Acentric Factor: 0,48
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

N-Methyl-2-Pyrrolidon

Fluid Type: Simple Newtonian Fluid
Fluid Name: N-Methyl-2-Pyrrolidon
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

nitrous oxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: nitrous oxide
Alternative Names: [laughing gas]
Formula: N2O
Critical Pressure: 7255000 Pa
Critical Temperature: 309,6 K
Molar Critical Volume: 97,4 cm3/mol
Melting Point: 182,3 K
Boiling Point: 184,7 K
Molecular Weight: 44,0128
Acentric Factor: 0,142
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

nitromethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: nitromethane
Alternative Names: [nitrocarbol]
Formula: CH3NO2
Critical Pressure: 5870000 Pa
Critical Temperature: 588 K
Molar Critical Volume: 173 cm3/mol
Melting Point: 244,6 K
Boiling Point: 374,3 K
Molecular Weight: 61,0402
Acentric Factor: 0,31
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nitrogen trifluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: nitrogen trifluoride
Alternative Names: [perfluorammonia]
Formula: F3N
Critical Pressure: 4530000 Pa
Critical Temperature: 234 K
Molar Critical Volume: 118 cm3/mol
Melting Point: 66,4 K
Boiling Point: 144,4 K
Molecular Weight: 71,0019
Acentric Factor: 0,126
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

nitrogen dioxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: nitrogen dioxide
Alternative Names: []
Formula: NO2
Critical Pressure: 10100000 Pa
Critical Temperature: 431 K
Molar Critical Volume: 167,8 cm3/mol
Melting Point: 261,9 K
Boiling Point: 294,3 K
Molecular Weight: 46,0055
Acentric Factor: 0,834
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Lucas]
Two-Phase Properties: [Estimated]

nitrogen

Fluid Type: Pure Newtonian Fluid
Fluid Name: nitrogen
Alternative Names: []
Formula: N2
Critical Pressure: 3394000 Pa
Critical Temperature: 126,4 K
Molar Critical Volume: 89,8 cm3/mol
Melting Point: 63,3 K
Boiling Point: 77,4 K
Molecular Weight: 28,013
Acentric Factor: 0,039
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

nitroethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: nitroethane
Alternative Names: []
Formula: C2H5NO2
Critical Pressure: 5160000 Pa
Critical Temperature: 593 K
Molar Critical Volume: 236 cm3/mol
Melting Point: 183,6 K
Boiling Point: 387,2 K
Molecular Weight: 75,067
Acentric Factor: 0,265
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: nitrobenzene
Alternative Names: []
Formula: C6H5NO2
Critical Pressure: 4400000 Pa
Critical Temperature: 719 K
Molar Critical Volume: 349 cm3/mol
Melting Point: 279 K
Boiling Point: 484 K
Molecular Weight: 123,111
Acentric Factor: 0,448
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

nitric oxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: nitric oxide
Alternative Names: []
Formula: NO
Critical Pressure: 6480000 Pa
Critical Temperature: 180 K
Molar Critical Volume: 57,7 cm3/mol
Melting Point: 109,5 K
Boiling Point: 121,4 K
Molecular Weight: 30,0061
Acentric Factor: 0,588
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

nitric acid

Fluid Type: Simple Newtonian Fluid
Fluid Name: nitric acid
Alternative Names: []
Formula: HNO3
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

n-hexylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-hexylbenzene
Alternative Names: [1-phenylhexylbenzene]
Formula: C12H18
Critical Pressure: 2380000 Pa
Critical Temperature: 697,5 K
Molar Critical Volume: 620 cm3/mol
Melting Point: 212 K
Boiling Point: 499,3 K
Molecular Weight: 162,274
Acentric Factor: 0,48
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-hexylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-hexylamine
Alternative Names: []
Formula: C6H15N
Critical Pressure: 3180000 Pa
Critical Temperature: 583 K
Molar Critical Volume: 418 cm3/mol
Melting Point: 251,85 K
Boiling Point: 404,65 K
Molecular Weight: 101,192
Acentric Factor: 0,467
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-hexanoic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-hexanoic acid
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 3550000 Pa
Critical Temperature: 667 K
Molar Critical Volume: 389 cm3/mol
Melting Point: 270,2 K
Boiling Point: 478,9 K
Molecular Weight: 116,16
Acentric Factor: 0,67
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-hexadecanoic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-hexadecanoic acid
Alternative Names: [1-pentadecanecarboxylic acid, cetylic acid, n-palmitic acid]
Formula: C16H32O2
Critical Pressure: 1510000 Pa
Critical Temperature: 776 K
Molar Critical Volume: 917 cm3/mol
Melting Point: 335,95 K
Boiling Point: 624,15 K
Molecular Weight: 256,429
Acentric Factor: 1,083
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-hexadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-hexadecane
Alternative Names: [cetane, hexadecane, n-cetane]
Formula: C16H34
Critical Pressure: 1419000 Pa
Critical Temperature: 720,6 K
Molar Critical Volume: 930 cm3/mol
Melting Point: 291,34 K
Boiling Point: 560,01 K
Molecular Weight: 226,446
Acentric Factor: 0,747
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-heptyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-heptyl mercaptan
Alternative Names: []
Formula: C7H16S
Critical Pressure: 2770000 Pa
Critical Temperature: 645 K
Molar Critical Volume: 456 cm3/mol
Melting Point: 229,9 K
Boiling Point: 450,1 K
Molecular Weight: 132,27
Acentric Factor: 0,419
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-heptanoic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-heptanoic acid
Alternative Names: []
Formula: C7H14O2
Critical Pressure: 2990000 Pa
Critical Temperature: 680 K
Molar Critical Volume: 442 cm3/mol
Melting Point: 265,8 K
Boiling Point: 496,2 K
Molecular Weight: 130,187
Acentric Factor: 0,717
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-heptadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-heptadecane
Alternative Names: [heptadecane]
Formula: C17H36
Critical Pressure: 1317000 Pa
Critical Temperature: 733,37 K
Molar Critical Volume: 1005,8 cm3/mol
Melting Point: 295,13 K
Boiling Point: 575,3 K
Molecular Weight: 240,473
Acentric Factor: 0,768
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

neopentyl glycol

Fluid Type: Pure Newtonian Fluid
Fluid Name: neopentyl glycol
Alternative Names: []
Formula: C5H12O2
Critical Pressure: 4240000 Pa
Critical Temperature: 643 K
Molar Critical Volume: 345 cm3/mol
Melting Point: 400 K
Boiling Point: 483 K
Molecular Weight: 104,149
Acentric Factor: 1,143
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

neopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: neopentane
Alternative Names: [2,2-dimethylpropane, tetramethylcarbon]
Formula: C5H12
Critical Pressure: 3196000 Pa
Critical Temperature: 433,8 K
Molar Critical Volume: 307 cm3/mol
Melting Point: 256,5 K
Boiling Point: 282,6 K
Molecular Weight: 72,1498
Acentric Factor: 0,197
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

neon

Fluid Type: Pure Newtonian Fluid
Fluid Name: neon
Alternative Names: []
Formula: Ne
Critical Pressure: 2760000 Pa
Critical Temperature: 44,4 K
Molar Critical Volume: 41,6 cm3/mol
Melting Point: 24,5 K
Boiling Point: 27,1 K
Molecular Weight: 20,179
Acentric Factor: -0,029
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

n-eicosane

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-eicosane
Alternative Names: [didecyl, icosane]
Formula: C20H42
Critical Pressure: 1040000 Pa
Critical Temperature: 767,04 K
Molar Critical Volume: 1190 cm3/mol
Melting Point: 309,59 K
Boiling Point: 616,93 K
Molecular Weight: 282,553
Acentric Factor: 0,876
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-dodecylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-dodecylbenzene
Alternative Names: [1-phenyldodecane, dodecylbenzene, laurylbenzene]
Formula: C18H30
Critical Pressure: 1579000 Pa
Critical Temperature: 774,26 K
Molar Critical Volume: 1000 cm3/mol
Melting Point: 275,93 K
Boiling Point: 600,76 K
Molecular Weight: 246,436
Acentric Factor: 0,786
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-decylcyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-decylcyclohexane
Alternative Names: [1-cyclohexyldecane, 1-decylcyclohexane, decylcyclohexane]
Formula: C16H32
Critical Pressure: 1650000 Pa
Critical Temperature: 751,25 K
Molar Critical Volume: 858 cm3/mol
Melting Point: 271,42 K
Boiling Point: 570,75 K
Molecular Weight: 224,43
Acentric Factor: 0,663
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-decylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-decylbenzene
Alternative Names: [1-phenyldecane, decylbenzene]
Formula: C16H26
Critical Pressure: 1770000 Pa
Critical Temperature: 753 K
Molar Critical Volume: 881 cm3/mol
Melting Point: 258,77 K
Boiling Point: 571,04 K
Molecular Weight: 218,382
Acentric Factor: 0,681
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-butylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-butylbenzene
Alternative Names: [1-phenylbutane]
Formula: C10H14
Critical Pressure: 2890000 Pa
Critical Temperature: 660,5 K
Molar Critical Volume: 497 cm3/mol
Melting Point: 185,2 K
Boiling Point: 456,5 K
Molecular Weight: 134,222
Acentric Factor: 0,393
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-butyl propionate

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-butyl propionate
Alternative Names: []
Formula: C7H14O2
Critical Pressure: 2800000 Pa
Critical Temperature: 594 K
Molar Critical Volume: 442 cm3/mol
Melting Point: 183,6 K
Boiling Point: 419,8 K
Molecular Weight: 130,187
Acentric Factor: 0,475
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-butyl acrylate

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-butyl acrylate
Alternative Names: []
Formula: C7H12O2
Critical Pressure: 2630000 Pa
Critical Temperature: 598 K
Molar Critical Volume: 428 cm3/mol
Melting Point: 208,6 K
Boiling Point: 421 K
Molecular Weight: 128,171
Acentric Factor: 0,438
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

n-butyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: n-butyl acetate
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 3110000 Pa
Critical Temperature: 579,65 K
Molar Critical Volume: 389 cm3/mol
Melting Point: 199,7 K
Boiling Point: 399,2 K
Molecular Weight: 116,16
Acentric Factor: 0,41
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

natural gas typical [by Weight %]

Fluid Type: Mixture defined as mass percent
Fluid Name: natural gas typical [by Weight %]
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

natural gas typical [by Mole%]

Fluid Type: Mixture defined as mole percent
Fluid Name: natural gas typical [by Mole%]
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

natural gas simple

Fluid Type: Mixture defined as mass percent
Fluid Name: natural gas simple
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

natural gas A [by mole%]

Fluid Type: Mixture defined as mole percent
Fluid Name: natural gas A [by mole%]
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

natural gas - subsea

Fluid Type: Mixture defined as mole percent
Fluid Name: natural gas - subsea
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

natural gas - croatia

Fluid Type: Mixture defined as mole percent
Fluid Name: natural gas - croatia
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

naphthalene

Fluid Type: Pure Newtonian Fluid
Fluid Name: naphthalene
Alternative Names: [albocarbon, napthene]
Formula: C10H8
Critical Pressure: 4050000 Pa
Critical Temperature: 748,4 K
Molar Critical Volume: 413 cm3/mol
Melting Point: 353,5 K
Boiling Point: 491,1 K
Molecular Weight: 128,174
Acentric Factor: 0,302
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Naphta - Platfeed

Fluid Type: Simple Newtonian Fluid
Fluid Name: Naphta - Platfeed
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Naphta - Chemfeed

Fluid Type: Simple Newtonian Fluid
Fluid Name: Naphta - Chemfeed
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

m-xylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-xylene
Alternative Names: [1,3-dimethylbenzene, m-dimethylbenzene, m-xylol]
Formula: C8H10
Critical Pressure: 3540000 Pa
Critical Temperature: 617,1 K
Molar Critical Volume: 376 cm3/mol
Melting Point: 225,3 K
Boiling Point: 412,3 K
Molecular Weight: 106,168
Acentric Factor: 0,325
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Mustard

Fluid Name: Mustard
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

m-toluidine

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-toluidine
Alternative Names: []
Formula: C7H9N
Critical Pressure: 4154000 Pa
Critical Temperature: 709,15 K
Molar Critical Volume: 373 cm3/mol
Melting Point: 242,8 K
Boiling Point: 476,6 K
Molecular Weight: 107,155
Acentric Factor: 0,413
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

m-phenylenediamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-phenylenediamine
Alternative Names: []
Formula: C6H8N2
Critical Pressure: 5180000 Pa
Critical Temperature: 824 K
Molar Critical Volume: 377 cm3/mol
Melting Point: 334 K
Boiling Point: 560 K
Molecular Weight: 108,143
Acentric Factor: 0,543
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

morpholine

Fluid Type: Pure Newtonian Fluid
Fluid Name: morpholine
Alternative Names: [diethylene oximide]
Formula: C4H9NO
Critical Pressure: 5340000 Pa
Critical Temperature: 618 K
Molar Critical Volume: 276 cm3/mol
Melting Point: 270,1 K
Boiling Point: 401,2 K
Molecular Weight: 87,122
Acentric Factor: 0,358
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

monoethanolamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: monoethanolamine
Alternative Names: []
Formula: C2H7NO
Critical Pressure: 4450000 Pa
Critical Temperature: 614 K
Molar Critical Volume: 196 cm3/mol
Melting Point: 283,5 K
Boiling Point: 433,5 K
Molecular Weight: 61,0834
Acentric Factor: 0,8271
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

molasses 83bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: molasses 83bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

molasses 82bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: molasses 82bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

molasses 75bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: molasses 75bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

MOGAS

Fluid Type: Simple Newtonian Fluid
Fluid Name: MOGAS
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Table]
Gas Viscosity Definition: [Table]
Two-Phase Properties: [Data Provided]

m-nitrotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-nitrotoluene
Alternative Names: []
Formula: C7H7NO2
Critical Pressure: 3800000 Pa
Critical Temperature: 734 K
Molar Critical Volume: 441 cm3/mol
Melting Point: 289,2 K
Boiling Point: 505 K
Molecular Weight: 137,138
Acentric Factor: 0,49
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

m-nitroaniline

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-nitroaniline
Alternative Names: []
Formula: C6H6N2O2
Critical Pressure: 4420000 Pa
Critical Temperature: 815 K
Molar Critical Volume: 406 cm3/mol
Melting Point: 387,2 K
Boiling Point: 579 K
Molecular Weight: 138,126
Acentric Factor: 0,74
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

milk of lime 16.5bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: milk of lime 16.5bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

milk chocolate (40°C) medium shear B

Fluid Name: milk chocolate (40°C) medium shear B
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

milk chocolate (40°C) low shear B

Fluid Name: milk chocolate (40°C) low shear B
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

m-chloronitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-chloronitrobenzene
Alternative Names: []
Formula: C6H4ClNO2
Critical Pressure: 3980000 Pa
Critical Temperature: 742 K
Molar Critical Volume: 432 cm3/mol
Melting Point: 317,7 K
Boiling Point: 508,8 K
Molecular Weight: 157,556
Acentric Factor: 0,489
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

m-chloroaniline

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-chloroaniline
Alternative Names: []
Formula: C6H6ClN
Critical Pressure: 4590000 Pa
Critical Temperature: 751 K
Molar Critical Volume: 364 cm3/mol
Melting Point: 262,8 K
Boiling Point: 501,7 K
Molecular Weight: 127,573
Acentric Factor: 0,42
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

m-ethyltoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-ethyltoluene
Alternative Names: [1-methyl-3-ethylbenzene]
Formula: C9H12
Critical Pressure: 2840000 Pa
Critical Temperature: 637 K
Molar Critical Volume: 490 cm3/mol
Melting Point: 177,6 K
Boiling Point: 434,5 K
Molecular Weight: 120,195
Acentric Factor: 0,36
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl-n-butyrate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl-n-butyrate
Alternative Names: []
Formula: C5H10O2
Critical Pressure: 3473000 Pa
Critical Temperature: 554,5 K
Molar Critical Volume: 340 cm3/mol
Melting Point: 187,4 K
Boiling Point: 375,9 K
Molecular Weight: 102,133
Acentric Factor: 0,381
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methylglutaronitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: methylglutaronitrile
Alternative Names: []
Formula: C6H8N2
Critical Pressure: 2880000 Pa
Critical Temperature: 742 K
Molar Critical Volume: 404 cm3/mol
Melting Point: 228,2 K
Boiling Point: 536,2 K
Molecular Weight: 108,143
Acentric Factor: 0,638
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methylethanolamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: methylethanolamine
Alternative Names: []
Formula: C3H9NO
Critical Pressure: 5220000 Pa
Critical Temperature: 630 K
Molar Critical Volume: 253 cm3/mol
Melting Point: 268,7 K
Boiling Point: 431,2 K
Molecular Weight: 75,111
Acentric Factor: 0,586
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methylcyclopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: methylcyclopentane
Alternative Names: []
Formula: C6H12
Critical Pressure: 3790000 Pa
Critical Temperature: 532,7 K
Molar Critical Volume: 318 cm3/mol
Melting Point: 130,6 K
Boiling Point: 344,9 K
Molecular Weight: 84,1608
Acentric Factor: 0,231
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methylal

Fluid Type: Pure Newtonian Fluid
Fluid Name: methylal
Alternative Names: [dimethyloxymethane, formal]
Formula: C3H8O2
Critical Pressure: 3952000 Pa
Critical Temperature: 480,6 K
Molar Critical Volume: 213 cm3/mol
Melting Point: 168,4 K
Boiling Point: 315 K
Molecular Weight: 76,095
Acentric Factor: 0,29
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl vinyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl vinyl ether
Alternative Names: [methoxyethylene, vinyl methyl ether]
Formula: C3H6O
Critical Pressure: 4760000 Pa
Critical Temperature: 436 K
Molar Critical Volume: 205 cm3/mol
Melting Point: 151,5 K
Boiling Point: 278 K
Molecular Weight: 58,0798
Acentric Factor: 0,34
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl trichlorosilane

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl trichlorosilane
Alternative Names: [mtcs]
Formula: CH3Cl3Si
Critical Pressure: 3530000 Pa
Critical Temperature: 517 K
Molar Critical Volume: 340 cm3/mol
Melting Point: 195,4 K
Boiling Point: 339,6 K
Molecular Weight: 149,478
Acentric Factor: 0,263
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl tert-butyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl tert-butyl ether
Alternative Names: []
Formula: C5H12O
Critical Pressure: 3430000 Pa
Critical Temperature: 497,1 K
Molar Critical Volume: 329 cm3/mol
Melting Point: 164,6 K
Boiling Point: 328,4 K
Molecular Weight: 88,15
Acentric Factor: 0,267
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl silane

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl silane
Alternative Names: []
Formula: CH6Si
Critical Pressure: 4840000 Pa
Critical Temperature: 352,5 K
Molar Critical Volume: 205 cm3/mol
Melting Point: 116,3 K
Boiling Point: 216,3 K
Molecular Weight: 46,144
Acentric Factor: 0,139
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl salicylate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl salicylate
Alternative Names: []
Formula: C8H8O3
Critical Pressure: 4090000 Pa
Critical Temperature: 701 K
Molar Critical Volume: 410 cm3/mol
Melting Point: 265,2 K
Boiling Point: 493,7 K
Molecular Weight: 152,15
Acentric Factor: 0,632
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl propyl sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl propyl sulfide
Alternative Names: [2-thiapentane]
Formula: C4H10S
Critical Pressure: 3850000 Pa
Critical Temperature: 563 K
Molar Critical Volume: 313,5 cm3/mol
Melting Point: 160,2 K
Boiling Point: 368,7 K
Molecular Weight: 90,189
Acentric Factor: 0,285
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl propyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl propyl ether
Alternative Names: []
Formula: C4H10O
Critical Pressure: 3801000 Pa
Critical Temperature: 476,3 K
Molar Critical Volume: 274 cm3/mol
Melting Point: 157 K
Boiling Point: 312,2 K
Molecular Weight: 74,1224
Acentric Factor: 0,271
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl propionate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl propionate
Alternative Names: []
Formula: C4H8O2
Critical Pressure: 4000000 Pa
Critical Temperature: 530,6 K
Molar Critical Volume: 282 cm3/mol
Melting Point: 185,7 K
Boiling Point: 352,8 K
Molecular Weight: 88,107
Acentric Factor: 0,35
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl phenyl ketone

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl phenyl ketone
Alternative Names: [acetophenone, acetylbenzene]
Formula: C8H8O
Critical Pressure: 4060000 Pa
Critical Temperature: 714 K
Molar Critical Volume: 376 cm3/mol
Melting Point: 292,8 K
Boiling Point: 474,9 K
Molecular Weight: 120,151
Acentric Factor: 0,42
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl pentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl pentane
Alternative Names: [2-methyl pentane, iso hexane]
Formula: C6H14
Critical Pressure: 3010000 Pa
Critical Temperature: 497,5 K
Molar Critical Volume: 367 cm3/mol
Melting Point: 119,5 K
Boiling Point: 333,4 K
Molecular Weight: 86,178
Acentric Factor: 0,278
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl n-propyl ketone

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl n-propyl ketone
Alternative Names: [2-pentanone, ethyl acetone]
Formula: C5H10O
Critical Pressure: 3680000 Pa
Critical Temperature: 561,1 K
Molar Critical Volume: 301 cm3/mol
Melting Point: 196 K
Boiling Point: 375,4 K
Molecular Weight: 86,134
Acentric Factor: 0,346
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl n-butyl sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl n-butyl sulfide
Alternative Names: []
Formula: C5H12S
Critical Pressure: 3380000 Pa
Critical Temperature: 591 K
Molar Critical Volume: 369,5 cm3/mol
Melting Point: 175,33 K
Boiling Point: 396,58 K
Molecular Weight: 104,21
Acentric Factor: 0,332
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl methacrylate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl methacrylate
Alternative Names: []
Formula: C5H8O2
Critical Pressure: 3680000 Pa
Critical Temperature: 564 K
Molar Critical Volume: 323 cm3/mol
Melting Point: 225 K
Boiling Point: 273,5 K
Molecular Weight: 100,117
Acentric Factor: 0,317
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl mercaptan
Alternative Names: [methyl thioalcohol, methanethiol]
Formula: CH4S
Critical Pressure: 7230000 Pa
Critical Temperature: 470 K
Molar Critical Volume: 145 cm3/mol
Melting Point: 150,2 K
Boiling Point: 279,1 K
Molecular Weight: 48,1026
Acentric Factor: 0,1515
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl isopropyl ketone

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl isopropyl ketone
Alternative Names: [methyl butanone]
Formula: C5H10O
Critical Pressure: 3850000 Pa
Critical Temperature: 553,4 K
Molar Critical Volume: 310 cm3/mol
Melting Point: 181 K
Boiling Point: 367,5 K
Molecular Weight: 86,1334
Acentric Factor: 0,331
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl isopropyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl isopropyl ether
Alternative Names: [2-methoxypropane, isopropyl methyl ether]
Formula: C4H10O
Critical Pressure: 3762000 Pa
Critical Temperature: 464,5 K
Molar Critical Volume: 276 cm3/mol
Melting Point: 155 K
Boiling Point: 303,9 K
Molecular Weight: 74,1224
Acentric Factor: 0,27
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl isopropenyl ketone

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl isopropenyl ketone
Alternative Names: []
Formula: C5H8O
Critical Pressure: 3890000 Pa
Critical Temperature: 566 K
Molar Critical Volume: 302 cm3/mol
Melting Point: 219,6 K
Boiling Point: 371,2 K
Molecular Weight: 84,118
Acentric Factor: 0,286
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl isocyanate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl isocyanate
Alternative Names: []
Formula: C2H3NO
Critical Pressure: 5570000 Pa
Critical Temperature: 491 K
Molar Critical Volume: 190 cm3/mol
Melting Point: 256,2 K
Boiling Point: 312 K
Molecular Weight: 57,0518
Acentric Factor: 0,278
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl isobutyl ketone

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl isobutyl ketone
Alternative Names: [hexone, mibk]
Formula: C6H12O
Critical Pressure: 3270000 Pa
Critical Temperature: 571 K
Molar Critical Volume: 369 cm3/mol
Melting Point: 189 K
Boiling Point: 389,6 K
Molecular Weight: 100,161
Acentric Factor: 0,387
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl iodide

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl iodide
Alternative Names: [iodomethane]
Formula: CH3I
Critical Pressure: 6590000 Pa
Critical Temperature: 528 K
Molar Critical Volume: 185 cm3/mol
Melting Point: 206,7 K
Boiling Point: 315,6 K
Molecular Weight: 141,939
Acentric Factor: 0,193
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl chlorosilane

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl chlorosilane
Alternative Names: []
Formula: CH5ClSi
Critical Pressure: 4170000 Pa
Critical Temperature: 442 K
Molar Critical Volume: 246 cm3/mol
Melting Point: 139 K
Boiling Point: 281,9 K
Molecular Weight: 80,589
Acentric Factor: 0,225
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl chloroacetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl chloroacetate
Alternative Names: []
Formula: C3H5ClO2
Critical Pressure: 4500000 Pa
Critical Temperature: 600 K
Molar Critical Volume: 270 cm3/mol
Melting Point: 241 K
Boiling Point: 403 K
Molecular Weight: 108,524
Acentric Factor: 0,434
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Undefined]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl chloride
Alternative Names: [chloromethane, freon 40]
Formula: CH3Cl
Critical Pressure: 6679000 Pa
Critical Temperature: 416,3 K
Molar Critical Volume: 142 cm3/mol
Melting Point: 175,4 K
Boiling Point: 249 K
Molecular Weight: 50,4877
Acentric Factor: 0,152
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl formate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl formate
Alternative Names: [methyl methanoate]
Formula: C2H4O2
Critical Pressure: 6000000 Pa
Critical Temperature: 487,2 K
Molar Critical Volume: 172 cm3/mol
Melting Point: 174,2 K
Boiling Point: 304,9 K
Molecular Weight: 60,052
Acentric Factor: 0,257
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl formamide

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl formamide
Alternative Names: []
Formula: C2H5NO
Critical Pressure: 5620000 Pa
Critical Temperature: 721 K
Molar Critical Volume: 215 cm3/mol
Melting Point: 269,4 K
Boiling Point: 472,7 K
Molecular Weight: 59,0676
Acentric Factor: 0,192
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl ethyl sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl ethyl sulfide
Alternative Names: []
Formula: C3H8S
Critical Pressure: 4250000 Pa
Critical Temperature: 532,8 K
Molar Critical Volume: 257,5 cm3/mol
Melting Point: 167,2 K
Boiling Point: 340,2 K
Molecular Weight: 76,156
Acentric Factor: 0,216
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl ethyl ketone

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl ethyl ketone
Alternative Names: [2 butanone]
Formula: C4H8O
Critical Pressure: 4210000 Pa
Critical Temperature: 536,8 K
Molar Critical Volume: 267 cm3/mol
Melting Point: 186,5 K
Boiling Point: 352,71 K
Molecular Weight: 72,107
Acentric Factor: 0,322
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl ethyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl ethyl ether
Alternative Names: [methoxyethane]
Formula: C3H8O
Critical Pressure: 4400000 Pa
Critical Temperature: 437,8 K
Molar Critical Volume: 221 cm3/mol
Melting Point: 134 K
Boiling Point: 280,6 K
Molecular Weight: 60,096
Acentric Factor: 0,244
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl ether
Alternative Names: [dimethyl ether, dimethyl oxide]
Formula: C2H6O
Critical Pressure: 5370000 Pa
Critical Temperature: 400 K
Molar Critical Volume: 190 cm3/mol
Melting Point: 131,6 K
Boiling Point: 248,3 K
Molecular Weight: 46,0688
Acentric Factor: 0,2
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl diodide

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl diodide
Alternative Names: [diiodomethane, methylene iodide]
Formula: CH2I2
Critical Pressure: 5420000 Pa
Critical Temperature: 740,9 K
Molar Critical Volume: 267,5 cm3/mol
Melting Point: 279 K
Boiling Point: 455,2 K
Molecular Weight: 267,836
Acentric Factor: 0,16
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl dichlorosilane

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl dichlorosilane
Alternative Names: []
Formula: CH4Cl2Si
Critical Pressure: 3950000 Pa
Critical Temperature: 483 K
Molar Critical Volume: 289 cm3/mol
Melting Point: 182,6 K
Boiling Point: 314,7 K
Molecular Weight: 115,034
Acentric Factor: 0,276
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl diethanolamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl diethanolamine
Alternative Names: [MDEA, n-methyldiethanolamine]
Formula: C5H13NO2
Critical Pressure: 3880000 Pa
Critical Temperature: 678 K
Molar Critical Volume: 401 cm3/mol
Melting Point: 252,15 K
Boiling Point: 520,15 K
Molecular Weight: 119,164
Acentric Factor: 0,497
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl cyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl cyclohexane
Alternative Names: []
Formula: C7H14
Critical Pressure: 3480000 Pa
Critical Temperature: 572,1 K
Molar Critical Volume: 369 cm3/mol
Melting Point: 146,5 K
Boiling Point: 374,1 K
Molecular Weight: 98,1876
Acentric Factor: 0,236
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl cyanoacetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl cyanoacetate
Alternative Names: []
Formula: C4H5NO2
Critical Pressure: 3810000 Pa
Critical Temperature: 687 K
Molar Critical Volume: 305 cm3/mol
Melting Point: 260 K
Boiling Point: 478,2 K
Molecular Weight: 99,089
Acentric Factor: 0,549
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Undefined]

methyl benzoate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl benzoate
Alternative Names: [clorius, methyl benzenecarboxylate]
Formula: C8H8O2
Critical Pressure: 3640000 Pa
Critical Temperature: 692 K
Molar Critical Volume: 396 cm3/mol
Melting Point: 260,8 K
Boiling Point: 472,2 K
Molecular Weight: 136,151
Acentric Factor: 0,43
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl amine

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl amine
Alternative Names: [aminomethane, methanamine]
Formula: CH5N
Critical Pressure: 7614000 Pa
Critical Temperature: 430,7 K
Molar Critical Volume: 154,4 cm3/mol
Melting Point: 179,7 K
Boiling Point: 266,8 K
Molecular Weight: 31,0572
Acentric Factor: 0,292
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl allene

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl allene
Alternative Names: [1,2-butadiene]
Formula: C8H6
Critical Pressure: 4490000 Pa
Critical Temperature: 443,7 K
Molar Critical Volume: 219 cm3/mol
Melting Point: 137 K
Boiling Point: 284 K
Molecular Weight: 54,092
Acentric Factor: 0,255
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl acrylate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl acrylate
Alternative Names: [methoxycarbonylethylene, methyl propanoate]
Formula: C4H6O2
Critical Pressure: 4300000 Pa
Critical Temperature: 536 K
Molar Critical Volume: 265 cm3/mol
Melting Point: 196,7 K
Boiling Point: 353,5 K
Molecular Weight: 86,091
Acentric Factor: 0,35
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl acetylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl acetylene
Alternative Names: [allylene, propyne]
Formula: C3H4
Critical Pressure: 5630000 Pa
Critical Temperature: 402,4 K
Molar Critical Volume: 164 cm3/mol
Melting Point: 170,5 K
Boiling Point: 249,9 K
Molecular Weight: 40,065
Acentric Factor: 0,275
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl acetate
Alternative Names: [methyl acetic ester, methyl ethanoate]
Formula: C3H6O2
Critical Pressure: 4690000 Pa
Critical Temperature: 506,8 K
Molar Critical Volume: 228 cm3/mol
Melting Point: 175 K
Boiling Point: 330,4 K
Molecular Weight: 74,08
Acentric Factor: 0,326
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methyl acetamide

Fluid Type: Pure Newtonian Fluid
Fluid Name: methyl acetamide
Alternative Names: [acetylmethlamine]
Formula: C3H7NO
Critical Pressure: 4980000 Pa
Critical Temperature: 718 K
Molar Critical Volume: 267 cm3/mol
Melting Point: 301 K
Boiling Point: 478 K
Molecular Weight: 73,095
Acentric Factor: 0,435
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methy oleate

Fluid Type: Pure Newtonian Fluid
Fluid Name: methy oleate
Alternative Names: [cis-9-octadenoic acid, methyl ester, oleic acid]
Formula: C19H36O2
Critical Pressure: 1280000 Pa
Critical Temperature: 764 K
Molar Critical Volume: 1060 cm3/mol
Melting Point: 293,05 K
Boiling Point: 617 K
Molecular Weight: 296,494
Acentric Factor: 1,049
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methoxyaceticacid

Fluid Type: Pure Newtonian Fluid
Fluid Name: methoxyaceticacid
Alternative Names: []
Formula: C3H6O3
Critical Pressure: 4980000 Pa
Critical Temperature: 691 K
Molar Critical Volume: 251 cm3/mol
Melting Point: 281 K
Boiling Point: 478,3 K
Molecular Weight: 90,079
Acentric Factor: 0,63
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

Methansulfansäure 3,5M

Fluid Type: Simple Newtonian Fluid
Fluid Name: Methansulfansäure 3,5M
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Methansulfansäure 0,3M

Fluid Type: Simple Newtonian Fluid
Fluid Name: Methansulfansäure 0,3M
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

methanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: methanol
Alternative Names: [methyl alcohol, carbinol]
Formula: CH4O
Critical Pressure: 8085000 Pa
Critical Temperature: 512,6 K
Molar Critical Volume: 117,5 cm3/mol
Melting Point: 175,5 K
Boiling Point: 337,7 K
Molecular Weight: 32,042
Acentric Factor: 0,556
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methane ethane mix

Fluid Type: Mixture defined as mole percent
Fluid Name: methane ethane mix
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

methane

Fluid Type: Pure Newtonian Fluid
Fluid Name: methane
Alternative Names: [methyl hydride, marsh gas]
Formula: CH4
Critical Pressure: 4599200 Pa
Critical Temperature: 190,7 K
Molar Critical Volume: 98,7 cm3/mol
Melting Point: 90,7 K
Boiling Point: 111,67 K
Molecular Weight: 16,0426
Acentric Factor: 0,011
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methacrylonitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: methacrylonitrile
Alternative Names: []
Formula: C5H5N
Critical Pressure: 3880000 Pa
Critical Temperature: 554 K
Molar Critical Volume: 265 cm3/mol
Melting Point: 237,4 K
Boiling Point: 363,5 K
Molecular Weight: 67,09
Acentric Factor: 0,301
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

methacrylic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: methacrylic acid
Alternative Names: []
Formula: C4H6O2
Critical Pressure: 4700000 Pa
Critical Temperature: 643 K
Molar Critical Volume: 270 cm3/mol
Melting Point: 288,2 K
Boiling Point: 434,2 K
Molecular Weight: 86,09
Acentric Factor: 0,468
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

methacrolein

Fluid Type: Pure Newtonian Fluid
Fluid Name: methacrolein
Alternative Names: []
Formula: C4H6O
Critical Pressure: 4250000 Pa
Critical Temperature: 530 K
Molar Critical Volume: 250 cm3/mol
Melting Point: 192,2 K
Boiling Point: 341,2 K
Molecular Weight: 70,091
Acentric Factor: 0,246
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

mesityl oxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: mesityl oxide
Alternative Names: []
Formula: C6H10O
Critical Pressure: 3410000 Pa
Critical Temperature: 600 K
Molar Critical Volume: 355 cm3/mol
Melting Point: 200,2 K
Boiling Point: 403 K
Molecular Weight: 98,145
Acentric Factor: 0,327
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

m-dinitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-dinitrobenzene
Alternative Names: []
Formula: C6H4N2O4
Critical Pressure: 3850000 Pa
Critical Temperature: 805 K
Molar Critical Volume: 434 cm3/mol
Melting Point: 364 K
Boiling Point: 573 K
Molecular Weight: 168,109
Acentric Factor: 0,682
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

m-dichlorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-dichlorobenzene
Alternative Names: []
Formula: C6H4Cl2
Critical Pressure: 4070000 Pa
Critical Temperature: 683,95 K
Molar Critical Volume: 351 cm3/mol
Melting Point: 248,4 K
Boiling Point: 446,2 K
Molecular Weight: 147,003
Acentric Factor: 0,279
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

m-difluorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-difluorobenzene
Alternative Names: []
Formula: C6H4F2
Critical Pressure: 4067000 Pa
Critical Temperature: 552,94 K
Molar Critical Volume: 299,5 cm3/mol
Melting Point: 249,2 K
Boiling Point: 363,7 K
Molecular Weight: 114,094
Acentric Factor: 0,32
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

m-dibromobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-dibromobenzene
Alternative Names: []
Formula: C6H4Br2
Critical Pressure: 4660000 Pa
Critical Temperature: 761 K
Molar Critical Volume: 372 cm3/mol
Melting Point: 266,3 K
Boiling Point: 491,2 K
Molecular Weight: 235,906
Acentric Factor: 0,293
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

MDEA-Water-CO2 Mix

Fluid Type: Mixture defined as mole percent
Fluid Name: MDEA-Water-CO2 Mix
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

m-cresol

Fluid Type: Pure Newtonian Fluid
Fluid Name: m-cresol
Alternative Names: [3-methylphenol, m-cresylic acid]
Formula: C7H8O
Critical Pressure: 4560000 Pa
Critical Temperature: 705,8 K
Molar Critical Volume: 309 cm3/mol
Melting Point: 284,9 K
Boiling Point: 475,4 K
Molecular Weight: 108,14
Acentric Factor: 0,454
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Mayonnaise (Low Fat)

Fluid Name: Mayonnaise (Low Fat)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Mayonnaise (Full Fat)

Fluid Name: Mayonnaise (Full Fat)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Mayonnaise

Fluid Name: Mayonnaise
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

malononitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: malononitrile
Alternative Names: [cyanoacetonitrile]
Formula: C3H2N2
Critical Pressure: 4040000 Pa
Critical Temperature: 715 K
Molar Critical Volume: 148 cm3/mol
Melting Point: 304,9 K
Boiling Point: 491,5 K
Molecular Weight: 66,062
Acentric Factor: 0,509
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

malic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: malic acid
Alternative Names: []
Formula: C4H6O5
Critical Pressure: 5070000 Pa
Critical Temperature: 781 K
Molar Critical Volume: 331 cm3/mol
Melting Point: 403,2 K
Boiling Point: 602 K
Molecular Weight: 134,089
Acentric Factor: 1,53
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

maleic anhydride

Fluid Type: Pure Newtonian Fluid
Fluid Name: maleic anhydride
Alternative Names: []
Formula: C4H2O3
Critical Pressure: 7280000 Pa
Critical Temperature: 721 K
Molar Critical Volume: 219 cm3/mol
Melting Point: 326 K
Boiling Point: 475,2 K
Molecular Weight: 98,058
Acentric Factor: 0,546
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

maleic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: maleic acid
Alternative Names: []
Formula: C4H4O4
Critical Pressure: 4990000 Pa
Critical Temperature: 773 K
Molar Critical Volume: 297 cm3/mol
Melting Point: 403,5 K
Boiling Point: 565 K
Molecular Weight: 116,073
Acentric Factor: 0,998
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

lysine

Fluid Type: Pure Newtonian Fluid
Fluid Name: lysine
Alternative Names: []
Formula: C6H14N2O2
Critical Pressure: 3530000 Pa
Critical Temperature: 821 K
Molar Critical Volume: 502 cm3/mol
Melting Point: 483 K
Boiling Point: 615 K
Molecular Weight: 146,189
Acentric Factor: 1,012
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

L-Proline

Fluid Type: Simple Newtonian Fluid
Fluid Name: L-Proline
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

low green 80bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: low green 80bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

low green 74bx 75pty

Fluid Type: Simple Newtonian Fluid
Fluid Name: low green 74bx 75pty
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

low green 74bx 72pty

Fluid Type: Simple Newtonian Fluid
Fluid Name: low green 74bx 72pty
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

low green 72bx 71pty

Fluid Type: Simple Newtonian Fluid
Fluid Name: low green 72bx 71pty
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

low green 71bx 69pty

Fluid Type: Simple Newtonian Fluid
Fluid Name: low green 71bx 69pty
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

low green 56bx 75pty

Fluid Type: Simple Newtonian Fluid
Fluid Name: low green 56bx 75pty
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

low green 55bx 71pty

Fluid Type: Simple Newtonian Fluid
Fluid Name: low green 55bx 71pty
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

low green 54bx 69pty

Fluid Type: Simple Newtonian Fluid
Fluid Name: low green 54bx 69pty
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

LNG Simple

Fluid Type: Mixture defined as mole percent
Fluid Name: LNG Simple
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

linoleic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: linoleic acid
Alternative Names: [12-octadecadienoic acid, cis-9]
Formula: C18H32O2
Critical Pressure: 1410000 Pa
Critical Temperature: 775 K
Molar Critical Volume: 990 cm3/mol
Melting Point: 268,15 K
Boiling Point: 628 K
Molecular Weight: 280,451
Acentric Factor: 1,176
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Limestone Slurry (58%)

Fluid Name: Limestone Slurry (58%)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

lime sludge (N)

Fluid Type: Simple Newtonian Fluid
Fluid Name: lime sludge (N)
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

LDGas

Fluid Type: Mixture defined as mass percent
Fluid Name: LDGas
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

laterite slurry

Fluid Name: laterite slurry
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

lactonitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: lactonitrile
Alternative Names: [actetaldehyde cyanohydrin]
Formula: C3H5NO
Critical Pressure: 5030000 Pa
Critical Temperature: 643 K
Molar Critical Volume: 243 cm3/mol
Melting Point: 233 K
Boiling Point: 457 K
Molecular Weight: 71,0786
Acentric Factor: 0,796
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

lactic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: lactic acid
Alternative Names: []
Formula: C3H6O3
Critical Pressure: 5965000 Pa
Critical Temperature: 616 K
Molar Critical Volume: 216,9 cm3/mol
Melting Point: 291,2 K
Boiling Point: 447 K
Molecular Weight: 90,079
Acentric Factor: 1,035
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

krypton

Fluid Type: Pure Newtonian Fluid
Fluid Name: krypton
Alternative Names: []
Formula: Kr
Critical Pressure: 5500000 Pa
Critical Temperature: 209,4 K
Molar Critical Volume: 91,2 cm3/mol
Melting Point: 115,8 K
Boiling Point: 119,9 K
Molecular Weight: 83,8
Acentric Factor: 0,005
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

Klebosol

Fluid Type: Simple Newtonian Fluid
Fluid Name: Klebosol
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Ketchup

Fluid Name: Ketchup
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

ketene

Fluid Type: Pure Newtonian Fluid
Fluid Name: ketene
Alternative Names: [ethenone, methylene ketone]
Formula: C2H2O
Critical Pressure: 6900000 Pa
Critical Temperature: 380 K
Molar Critical Volume: 145 cm3/mol
Melting Point: 138 K
Boiling Point: 232 K
Molecular Weight: 42,038
Acentric Factor: 0,21
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

KE bol

Fluid Type: Simple Newtonian Fluid
Fluid Name: KE bol
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

KDSP-100

Fluid Type: Mixture defined as mass percent
Fluid Name: KDSP-100
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

kaolin suspension

Fluid Name: kaolin suspension
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Herschel Bulkley]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Kaliumhydroxid 50%

Fluid Type: Simple Newtonian Fluid
Fluid Name: Kaliumhydroxid 50%
Alternative Names: [KOH]
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

juice 60bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: juice 60bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

juice 50bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: juice 50bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

JF bol

Fluid Type: Simple Newtonian Fluid
Fluid Name: JF bol
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

JET A1

Fluid Type: Simple Newtonian Fluid
Fluid Name: JET A1
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Jet A-1

Fluid Type: Simple Newtonian Fluid
Fluid Name: Jet A-1
Alternative Names: [Jet A, AVTUR, JP5, JP8]
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

itaconic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: itaconic acid
Alternative Names: []
Formula: C5H6O4
Critical Pressure: 4240000 Pa
Critical Temperature: 821 K
Molar Critical Volume: 340 cm3/mol
Melting Point: 438,8 K
Boiling Point: 601 K
Molecular Weight: 130,1
Acentric Factor: 0,925
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isovaleric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: isovaleric acid
Alternative Names: []
Formula: C5H10O2
Critical Pressure: 3890000 Pa
Critical Temperature: 634 K
Molar Critical Volume: 336 cm3/mol
Melting Point: 243,9 K
Boiling Point: 448,3 K
Molecular Weight: 102,133
Acentric Factor: 0,648
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopropyl-tert-butyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl-tert-butyl ether
Alternative Names: []
Formula: C7H16O
Critical Pressure: 2829000 Pa
Critical Temperature: 558,21 K
Molar Critical Volume: 428,5 cm3/mol
Melting Point: 177,8 K
Boiling Point: 378,7 K
Molecular Weight: 116,203
Acentric Factor: 0,307
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopropyl-sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl-sulfide
Alternative Names: []
Formula: C6H14S
Critical Pressure: 3225000 Pa
Critical Temperature: 585,71 K
Molar Critical Volume: 413,5 cm3/mol
Melting Point: 170,5 K
Boiling Point: 393,2 K
Molecular Weight: 118,237
Acentric Factor: 0,316
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopropyl methyl sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl methyl sulfide
Alternative Names: [3-methyl-2-thiabutane]
Formula: C4H10S
Critical Pressure: 3900000 Pa
Critical Temperature: 551 K
Molar Critical Volume: 307,5 cm3/mol
Melting Point: 171,7 K
Boiling Point: 357,9 K
Molecular Weight: 90,189
Acentric Factor: 0,259
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopropyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl mercaptan
Alternative Names: [2-propanethiol]
Formula: C3H8S
Critical Pressure: 4740000 Pa
Critical Temperature: 517 K
Molar Critical Volume: 254 cm3/mol
Melting Point: 142,6 K
Boiling Point: 325,7 K
Molecular Weight: 76,163
Acentric Factor: 0,212
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

isopropyl iodide

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl iodide
Alternative Names: [2-iodopropane]
Formula: C3H7I
Critical Pressure: 4330000 Pa
Critical Temperature: 574,6 K
Molar Critical Volume: 285,5 cm3/mol
Melting Point: 183 K
Boiling Point: 362,6 K
Molecular Weight: 169,993
Acentric Factor: 0,195
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopropyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl chloride
Alternative Names: [2-chloropropane, chlorodimethylmethane]
Formula: C3H7Cl
Critical Pressure: 4720000 Pa
Critical Temperature: 485 K
Molar Critical Volume: 230 cm3/mol
Melting Point: 156 K
Boiling Point: 308,9 K
Molecular Weight: 78,542
Acentric Factor: 0,232
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopropyl fluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl fluoride
Alternative Names: [2-fluoropropane]
Formula: C3H7F
Critical Pressure: 4200000 Pa
Critical Temperature: 415,7 K
Molar Critical Volume: 215,5 cm3/mol
Melting Point: 140 K
Boiling Point: 263,8 K
Molecular Weight: 62,0867
Acentric Factor: 0,204
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

isopropyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl ether
Alternative Names: []
Formula: C6H140
Critical Pressure: 2832000 Pa
Critical Temperature: 500,3 K
Molar Critical Volume: 386 cm3/mol
Melting Point: 186,3 K
Boiling Point: 341,66 K
Molecular Weight: 102,176
Acentric Factor: 0,331
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopropyl cyanide

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl cyanide
Alternative Names: [isobutyronitrile]
Formula: C4H7N
Critical Pressure: 3760000 Pa
Critical Temperature: 565 K
Molar Critical Volume: 278 cm3/mol
Melting Point: 201,7 K
Boiling Point: 376,8 K
Molecular Weight: 69,106
Acentric Factor: 0,338
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopropyl bromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl bromide
Alternative Names: [2-bromopropane]
Formula: C3H7Br
Critical Pressure: 5510000 Pa
Critical Temperature: 532 K
Molar Critical Volume: 266 cm3/mol
Melting Point: 184,2 K
Boiling Point: 332,6 K
Molecular Weight: 122,993
Acentric Factor: 0,243
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

isopropyl amine

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl amine
Alternative Names: [1-methylethylamine, 2-aminopropane]
Formula: C3H9N
Critical Pressure: 4540000 Pa
Critical Temperature: 471,8 K
Molar Critical Volume: 221 cm3/mol
Melting Point: 177,9 K
Boiling Point: 305,6 K
Molecular Weight: 59,112
Acentric Factor: 0,291
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

isopropyl alcohol

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl alcohol
Alternative Names: [2-propanol, isopropanol]
Formula: C3H8O
Critical Pressure: 4760000 Pa
Critical Temperature: 508,3 K
Molar Critical Volume: 220 cm3/mol
Melting Point: 184,7 K
Boiling Point: 355,4 K
Molecular Weight: 60,096
Acentric Factor: 0,665
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopropyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopropyl acetate
Alternative Names: []
Formula: C5H10O2
Critical Pressure: 3580000 Pa
Critical Temperature: 538 K
Molar Critical Volume: 336 cm3/mol
Melting Point: 199,8 K
Boiling Point: 361,7 K
Molecular Weight: 102,133
Acentric Factor: 0,355
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isoprene

Fluid Type: Pure Newtonian Fluid
Fluid Name: isoprene
Alternative Names: [2-methyl-1,3-butadiene, isopentadiene]
Formula: C5H8
Critical Pressure: 3850000 Pa
Critical Temperature: 484 K
Molar Critical Volume: 276 cm3/mol
Melting Point: 127,2 K
Boiling Point: 307,2 K
Molecular Weight: 68,1182
Acentric Factor: 0,164
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isophthaloyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: isophthaloyl chloride
Alternative Names: []
Formula: C8H4Cl2O2
Critical Pressure: 3330000 Pa
Critical Temperature: 768 K
Molar Critical Volume: 471 cm3/mol
Melting Point: 317 K
Boiling Point: 549 K
Molecular Weight: 203,024
Acentric Factor: 0,646
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isophthalic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: isophthalic acid
Alternative Names: []
Formula: C8H6O4
Critical Pressure: 3950000 Pa
Critical Temperature: 1007 K
Molar Critical Volume: 424 cm3/mol
Melting Point: 619,2 K
Boiling Point: 753 K
Molecular Weight: 166,133
Acentric Factor: 1,062
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

isopentyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopentyl acetate
Alternative Names: []
Formula: C7H14O2
Critical Pressure: 2840000 Pa
Critical Temperature: 599 K
Molar Critical Volume: 442 cm3/mol
Melting Point: 194,7 K
Boiling Point: 415,3 K
Molecular Weight: 130,187
Acentric Factor: 0,414
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: isopentane
Alternative Names: [2-methyl butane]
Formula: C5H12
Critical Pressure: 3380000 Pa
Critical Temperature: 460,4 K
Molar Critical Volume: 306 cm3/mol
Melting Point: 113,2 K
Boiling Point: 301,03 K
Molecular Weight: 72,1498
Acentric Factor: 0,227
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isooctane

Fluid Type: Pure Newtonian Fluid
Fluid Name: isooctane
Alternative Names: [2,2,4-trimethylpentane]
Formula: C8H18
Critical Pressure: 2570000 Pa
Critical Temperature: 544 K
Molar Critical Volume: 468 cm3/mol
Melting Point: 165,8 K
Boiling Point: 372,4 K
Molecular Weight: 114,232
Acentric Factor: 0,303
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isoheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: isoheptane
Alternative Names: [2-methyhexane]
Formula: C7H16
Critical Pressure: 2740000 Pa
Critical Temperature: 530,4 K
Molar Critical Volume: 421 cm3/mol
Melting Point: 154,9 K
Boiling Point: 363,2 K
Molecular Weight: 100,203
Acentric Factor: 0,329
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isobutyric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutyric acid
Alternative Names: [dimethylacetic acid]
Formula: C4H8O2
Critical Pressure: 4050000 Pa
Critical Temperature: 609 K
Molar Critical Volume: 292 cm3/mol
Melting Point: 227,2 K
Boiling Point: 427,9 K
Molecular Weight: 88,107
Acentric Factor: 0,623
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isobutyraldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutyraldehyde
Alternative Names: [isopropylformaldehyde]
Formula: C4H8O
Critical Pressure: 4150000 Pa
Critical Temperature: 513 K
Molar Critical Volume: 274 cm3/mol
Melting Point: 208,2 K
Boiling Point: 337 K
Molecular Weight: 72,107
Acentric Factor: 0,35
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isobutylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutylbenzene
Alternative Names: [1-phenyl-2-methylpropane]
Formula: C10H14
Critical Pressure: 3050000 Pa
Critical Temperature: 650 K
Molar Critical Volume: 480 cm3/mol
Melting Point: 221,7 K
Boiling Point: 445,94 K
Molecular Weight: 134,221
Acentric Factor: 0,38
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

isobutyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutyl mercaptan
Alternative Names: [2-methyl-1-propanethiol]
Formula: C4H10S
Critical Pressure: 4060000 Pa
Critical Temperature: 559 K
Molar Critical Volume: 307 cm3/mol
Melting Point: 128,3 K
Boiling Point: 361,6 K
Molecular Weight: 90,189
Acentric Factor: 0,252
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isobutyl formate

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutyl formate
Alternative Names: [isobutyl methoanate, tetryl formate]
Formula: C5H10O2
Critical Pressure: 3730000 Pa
Critical Temperature: 554 K
Molar Critical Volume: 352 cm3/mol
Melting Point: 178 K
Boiling Point: 371,4 K
Molecular Weight: 102,134
Acentric Factor: 0,396
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

isobutyl amine

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutyl amine
Alternative Names: [2-methyl-1-propylamine, valamine]
Formula: C4H11N
Critical Pressure: 4070000 Pa
Critical Temperature: 519 K
Molar Critical Volume: 278 cm3/mol
Melting Point: 186,4 K
Boiling Point: 340,9 K
Molecular Weight: 73,1376
Acentric Factor: 0,368
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

isobutyl acrylate

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutyl acrylate
Alternative Names: []
Formula: C7H12O2
Critical Pressure: 2950000 Pa
Critical Temperature: 580 K
Molar Critical Volume: 428 cm3/mol
Melting Point: 212 K
Boiling Point: 405,2 K
Molecular Weight: 128,171
Acentric Factor: 0,457
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isobutyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutyl acetate
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 3160000 Pa
Critical Temperature: 564 K
Molar Critical Volume: 414 cm3/mol
Melting Point: 174,3 K
Boiling Point: 389,7 K
Molecular Weight: 116,16
Acentric Factor: 0,455
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isobutene

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutene
Alternative Names: [isobutylene]
Formula: C4H8
Critical Pressure: 4000000 Pa
Critical Temperature: 417,9 K
Molar Critical Volume: 239 cm3/mol
Melting Point: 132,8 K
Boiling Point: 266,2 K
Molecular Weight: 56,108
Acentric Factor: 0,194
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

isobutanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutanol
Alternative Names: [isobutyl alcohol]
Formula: C4H10O
Critical Pressure: 4300000 Pa
Critical Temperature: 547,8 K
Molar Critical Volume: 273 cm3/mol
Melting Point: 165,2 K
Boiling Point: 381 K
Molecular Weight: 74,123
Acentric Factor: 0,592
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

isobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: isobutane
Alternative Names: [2-methyl propane]
Formula: C4H10
Critical Pressure: 3640000 Pa
Critical Temperature: 407,9 K
Molar Critical Volume: 262,7 cm3/mol
Melting Point: 113,5 K
Boiling Point: 261,34 K
Molecular Weight: 58,123
Acentric Factor: 0,186
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

iron oxide Cw=18%

Fluid Name: iron oxide Cw=18%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

iodobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: iodobenzene
Alternative Names: [phenyl iodide]
Formula: C6H5I
Critical Pressure: 4520000 Pa
Critical Temperature: 721 K
Molar Critical Volume: 351 cm3/mol
Melting Point: 241,8 K
Boiling Point: 461,6 K
Molecular Weight: 204,011
Acentric Factor: 0,249
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

indene

Fluid Type: Pure Newtonian Fluid
Fluid Name: indene
Alternative Names: []
Formula: C9H8
Critical Pressure: 3800000 Pa
Critical Temperature: 695,1 K
Molar Critical Volume: 368,5 cm3/mol
Melting Point: 271 K
Boiling Point: 456 K
Molecular Weight: 116,162
Acentric Factor: 0,262
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

chlorotrifluoroethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: chlorotrifluoroethylene
Alternative Names: [trichloromonofluoroethylene]
Formula: C2ClF3
Critical Pressure: 4050000 Pa
Critical Temperature: 379 K
Molar Critical Volume: 212 cm3/mol
Melting Point: 115 K
Boiling Point: 245,3 K
Molecular Weight: 116,47
Acentric Factor: 0,252
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

chloroprene

Fluid Type: Pure Newtonian Fluid
Fluid Name: chloroprene
Alternative Names: []
Formula: C4H5Cl
Critical Pressure: 4260000 Pa
Critical Temperature: 525 K
Molar Critical Volume: 273 cm3/mol
Melting Point: 143,2 K
Boiling Point: 332,6 K
Molecular Weight: 88,536
Acentric Factor: 0,193
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

chloroform

Fluid Type: Pure Newtonian Fluid
Fluid Name: chloroform
Alternative Names: [trichloromethane, freon 20]
Formula: CHCl3
Critical Pressure: 5470000 Pa
Critical Temperature: 536,4 K
Molar Critical Volume: 240 cm3/mol
Melting Point: 209,8 K
Boiling Point: 334,3 K
Molecular Weight: 119,378
Acentric Factor: 0,218
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

chlorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: chlorobenzene
Alternative Names: [phenyl chloride]
Formula: C6H5Cl
Critical Pressure: 4530000 Pa
Critical Temperature: 632,4 K
Molar Critical Volume: 308 cm3/mol
Melting Point: 227,9 K
Boiling Point: 404,87 K
Molecular Weight: 112,559
Acentric Factor: 0,249
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

chloroacetyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: chloroacetyl chloride
Alternative Names: []
Formula: C2H2Cl2O
Critical Pressure: 5110000 Pa
Critical Temperature: 581 K
Molar Critical Volume: 245 cm3/mol
Melting Point: 251 K
Boiling Point: 379 K
Molecular Weight: 112,943
Acentric Factor: 0,358
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

chloroacetic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: chloroacetic acid
Alternative Names: []
Formula: C2H3ClO2
Critical Pressure: 5780000 Pa
Critical Temperature: 686 K
Molar Critical Volume: 221 cm3/mol
Melting Point: 333,2 K
Boiling Point: 462,5 K
Molecular Weight: 94,497
Acentric Factor: 0,551
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

chloroacetaldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: chloroacetaldehyde
Alternative Names: []
Formula: C2H3ClO
Critical Pressure: 5370000 Pa
Critical Temperature: 555 K
Molar Critical Volume: 201 cm3/mol
Melting Point: 256,9 K
Boiling Point: 358 K
Molecular Weight: 78,498
Acentric Factor: 0,33
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

chlorine trifluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: chlorine trifluoride
Alternative Names: []
Formula: ClF3
Critical Pressure: 7779000 Pa
Critical Temperature: 459,4 K
Molar Critical Volume: 134,5 cm3/mol
Melting Point: 190,15 K
Boiling Point: 284,65 K
Molecular Weight: 92,448
Acentric Factor: 0,316
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

chlorine

Fluid Type: Pure Newtonian Fluid
Fluid Name: chlorine
Alternative Names: []
Formula: Cl2
Critical Pressure: 7991000 Pa
Critical Temperature: 416,9 K
Molar Critical Volume: 123,8 cm3/mol
Melting Point: 171,6 K
Boiling Point: 239,2 K
Molecular Weight: 70,906
Acentric Factor: 0,09
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Antoine Equation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Lucas]
Two-Phase Properties: [Estimated]

chalk slurry

Fluid Name: chalk slurry
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

hydrochloric acid 35%

Fluid Type: Simple Newtonian Fluid
Fluid Name: hydrochloric acid 35%
Alternative Names: []
Formula: HCl
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

hydrogen sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: hydrogen sulfide
Alternative Names: []
Formula: H2S
Critical Pressure: 8940000 Pa
Critical Temperature: 373,2 K
Molar Critical Volume: 98,6 cm3/mol
Melting Point: 189,6 K
Boiling Point: 213,5 K
Molecular Weight: 34,08
Acentric Factor: 0,081
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

Hydrogen peroxide 31%

Fluid Type: Mixture defined as mass percent
Fluid Name: Hydrogen peroxide 31%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

hydrogen peroxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: hydrogen peroxide
Alternative Names: []
Formula: H2O2
Critical Pressure: 21684000 Pa
Critical Temperature: 730,15 K
Molar Critical Volume: 77,7 cm3/mol
Melting Point: 272,2 K
Boiling Point: 423,35 K
Molecular Weight: 34,015
Acentric Factor: 0,36
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hydrogen iodide

Fluid Type: Pure Newtonian Fluid
Fluid Name: hydrogen iodide
Alternative Names: [hydroiodic acid]
Formula: HI
Critical Pressure: 83100000 Pa
Critical Temperature: 424 K
Molar Critical Volume: 131 cm3/mol
Melting Point: 222,4 K
Boiling Point: 237,6 K
Molecular Weight: 127,912
Acentric Factor: 0,038
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

hydrogen chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: hydrogen chloride
Alternative Names: [hydrochloric acid]
Formula: HCl
Critical Pressure: 8310000 Pa
Critical Temperature: 324,7 K
Molar Critical Volume: 80,9 cm3/mol
Melting Point: 159 K
Boiling Point: 188,1 K
Molecular Weight: 36,4609
Acentric Factor: 0,133
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

hydrogen fluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: hydrogen fluoride
Alternative Names: [hydrofluoric acid]
Formula: HF
Critical Pressure: 6480000 Pa
Critical Temperature: 461 K
Molar Critical Volume: 69,2 cm3/mol
Melting Point: 190 K
Boiling Point: 293 K
Molecular Weight: 20,0063
Acentric Factor: 0,329
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Lucas]
Two-Phase Properties: [Estimated]

hydrogen cyanide

Fluid Type: Pure Newtonian Fluid
Fluid Name: hydrogen cyanide
Alternative Names: []
Formula: HCN
Critical Pressure: 5390000 Pa
Critical Temperature: 456,7 K
Molar Critical Volume: 138,8 cm3/mol
Melting Point: 259,9 K
Boiling Point: 298,9 K
Molecular Weight: 27,026
Acentric Factor: 0,388
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

hydrogen bromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: hydrogen bromide
Alternative Names: [hydrobromic acid]
Formula: HBr
Critical Pressure: 8550000 Pa
Critical Temperature: 363,2 K
Molar Critical Volume: 100 cm3/mol
Melting Point: 187,1 K
Boiling Point: 206,8 K
Molecular Weight: 80,9119
Acentric Factor: 0,067
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

hydrogen

Fluid Type: Pure Newtonian Fluid
Fluid Name: hydrogen
Alternative Names: []
Formula: H2
Critical Pressure: 1293000 Pa
Critical Temperature: 33 K
Molar Critical Volume: 65,1 cm3/mol
Melting Point: 14 K
Boiling Point: 20,4 K
Molecular Weight: 2,0158
Acentric Factor: -0,218
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

Hydrofluoric acid 5,1%

Fluid Type: Simple Newtonian Fluid
Fluid Name: Hydrofluoric acid 5,1%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Hydrofluoric acid 49%

Fluid Type: Simple Newtonian Fluid
Fluid Name: Hydrofluoric acid 49%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Hydro Safe ISO VG 68

Fluid Type: Simple Newtonian Fluid
Fluid Name: Hydro Safe ISO VG 68
Alternative Names: [Hydraulic Oil VG68]
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

hydrazine

Fluid Type: Pure Newtonian Fluid
Fluid Name: hydrazine
Alternative Names: []
Formula: H4N2
Critical Pressure: 14700000 Pa
Critical Temperature: 653 K
Molar Critical Volume: 232,6 cm3/mol
Melting Point: 274,7 K
Boiling Point: 386,7 K
Molecular Weight: 32,045
Acentric Factor: 0,316
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

Honey

Fluid Name: Honey
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

HNO3 69%

Fluid Type: Simple Newtonian Fluid
Fluid Name: HNO3 69%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

high green 78bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: high green 78bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

high green 75bx

Fluid Type: Simple Newtonian Fluid
Fluid Name: high green 75bx
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

hexylene glycol

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexylene glycol
Alternative Names: []
Formula: C6H14O2
Critical Pressure: 4010000 Pa
Critical Temperature: 621 K
Molar Critical Volume: 398 cm3/mol
Melting Point: 223,2 K
Boiling Point: 470,7 K
Molecular Weight: 118,176
Acentric Factor: 1,197
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexene
Alternative Names: [1-hexene]
Formula: C6H12
Critical Pressure: 3170000 Pa
Critical Temperature: 504 K
Molar Critical Volume: 350 cm3/mol
Melting Point: 133,3 K
Boiling Point: 336,6 K
Molecular Weight: 84,163
Acentric Factor: 0,285
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexanol
Alternative Names: [n-hexyl alcohol]
Formula: C4H14O
Critical Pressure: 4050000 Pa
Critical Temperature: 611 K
Molar Critical Volume: 381 cm3/mol
Melting Point: 229,2 K
Boiling Point: 430,2 K
Molecular Weight: 102,177
Acentric Factor: 0,56
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexanenitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexanenitrile
Alternative Names: [n-capronitrile]
Formula: C6H11N
Critical Pressure: 2920000 Pa
Critical Temperature: 622,05 K
Molar Critical Volume: 384 cm3/mol
Melting Point: 192,9 K
Boiling Point: 436,8 K
Molecular Weight: 97,16
Acentric Factor: 0,474
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexane
Alternative Names: []
Formula: C6H14
Critical Pressure: 3025000 Pa
Critical Temperature: 507,6 K
Molar Critical Volume: 368 cm3/mol
Melting Point: 177,8 K
Boiling Point: 341,88 K
Molecular Weight: 86,1766
Acentric Factor: 0,299
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexamethyleneimine

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexamethyleneimine
Alternative Names: []
Formula: C6H13N
Critical Pressure: 4270000 Pa
Critical Temperature: 615 K
Molar Critical Volume: 361 cm3/mol
Melting Point: 236,2 K
Boiling Point: 404,9 K
Molecular Weight: 99,176
Acentric Factor: 0,33
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexachloroethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexachloroethane
Alternative Names: [carbon hexachloride, perchloroethane]
Formula: C2Cl6
Critical Pressure: 3940000 Pa
Critical Temperature: 704,4 K
Molar Critical Volume: 419,5 cm3/mol
Melting Point: 458 K
Boiling Point: 460 K
Molecular Weight: 236,74
Acentric Factor: 0,275
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexachlorocyclopentatiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexachlorocyclopentatiene
Alternative Names: [perchlorocyclopentatiene]
Formula: C5Cl6
Critical Pressure: 3010000 Pa
Critical Temperature: 746 K
Molar Critical Volume: 526 cm3/mol
Melting Point: 284,5 K
Boiling Point: 512,2 K
Molecular Weight: 272,771
Acentric Factor: 0,369
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexachlorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexachlorobenzene
Alternative Names: []
Formula: C6Cl6
Critical Pressure: 2850000 Pa
Critical Temperature: 825 K
Molar Critical Volume: 526 cm3/mol
Melting Point: 501,7 K
Boiling Point: 582,6 K
Molecular Weight: 284,782
Acentric Factor: 0,497
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexafluoropropylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexafluoropropylene
Alternative Names: []
Formula: C3F6
Critical Pressure: 2900000 Pa
Critical Temperature: 368 K
Molar Critical Volume: 268 cm3/mol
Melting Point: 116,7 K
Boiling Point: 243,6 K
Molecular Weight: 150,023
Acentric Factor: 0,204
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

hexafluorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexafluorobenzene
Alternative Names: [perfluorobenzene]
Formula: C6F6
Critical Pressure: 3273000 Pa
Critical Temperature: 516,7 K
Molar Critical Volume: 335 cm3/mol
Melting Point: 278,5 K
Boiling Point: 353,4 K
Molecular Weight: 186,056
Acentric Factor: 0,396
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Lee Kesler Corresponding States]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexafluoroacetone

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexafluoroacetone
Alternative Names: []
Formula: C3F6O
Critical Pressure: 2840000 Pa
Critical Temperature: 357,1 K
Molar Critical Volume: 329 cm3/mol
Melting Point: 151,2 K
Boiling Point: 245,9 K
Molecular Weight: 166,023
Acentric Factor: 0,3645
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

hexaethylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexaethylbenzene
Alternative Names: [benzene, hexaetenzee]
Formula: C18H30
Critical Pressure: 1382000 Pa
Critical Temperature: 734,78 K
Molar Critical Volume: 935,5 cm3/mol
Melting Point: 401,16 K
Boiling Point: 571,16 K
Molecular Weight: 246,435
Acentric Factor: 0,698
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexadecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexadecene
Alternative Names: [cetene]
Formula: C16H32
Critical Pressure: 1330000 Pa
Critical Temperature: 717 K
Molar Critical Volume: 912,5 cm3/mol
Melting Point: 277,3 K
Boiling Point: 558 K
Molecular Weight: 224,429
Acentric Factor: 0,721
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

hexadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: hexadecane
Alternative Names: [cetane, n-hexadecane]
Formula: C16H34
Critical Pressure: 1400000 Pa
Critical Temperature: 723 K
Molar Critical Volume: 1034,1034 cm3/mol
Melting Point: 291,3 K
Boiling Point: 560,01 K
Molecular Weight: 226,445
Acentric Factor: 0,742
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

heptyl-sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: heptyl-sulfide
Alternative Names: []
Formula: C14H30S
Critical Pressure: 1544000 Pa
Critical Temperature: 762,23 K
Molar Critical Volume: 873,5 cm3/mol
Melting Point: 276,16 K
Boiling Point: 587,16 K
Molecular Weight: 230,451
Acentric Factor: 0,7
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

heptyl-disulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: heptyl-disulfide
Alternative Names: [di-n-heptyl disulphide]
Formula: C14H30S2
Critical Pressure: 1565000 Pa
Critical Temperature: 765,96 K
Molar Critical Volume: 927,5 cm3/mol
Melting Point: 235,16 K
Boiling Point: 593,86 K
Molecular Weight: 262,511
Acentric Factor: 0,758
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

heptene

Fluid Type: Pure Newtonian Fluid
Fluid Name: heptene
Alternative Names: [1-heptene, heptylene]
Formula: C7H14
Critical Pressure: 2920000 Pa
Critical Temperature: 537,3 K
Molar Critical Volume: 409 cm3/mol
Melting Point: 153,4 K
Boiling Point: 366,8 K
Molecular Weight: 98,1876
Acentric Factor: 0,358
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

heptanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: heptanol
Alternative Names: [1-heptanol, gentanol, heptyl alcohol]
Formula: C7H16O
Critical Pressure: 3058000 Pa
Critical Temperature: 632,6 K
Molar Critical Volume: 435 cm3/mol
Melting Point: 239,2 K
Boiling Point: 449,8 K
Molecular Weight: 116,204
Acentric Factor: 0,56
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

heptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: heptane
Alternative Names: [n-heptane]
Formula: C7H16
Critical Pressure: 2740000 Pa
Critical Temperature: 540,2 K
Molar Critical Volume: 428 cm3/mol
Melting Point: 182,5 K
Boiling Point: 371,6 K
Molecular Weight: 100,203
Acentric Factor: 0,349
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

heptadecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: heptadecene
Alternative Names: [hexahydroaplotaxene]
Formula: C17H34
Critical Pressure: 1260000 Pa
Critical Temperature: 732,4 K
Molar Critical Volume: 990,5 cm3/mol
Melting Point: 284 K
Boiling Point: 573,2 K
Molecular Weight: 238,456
Acentric Factor: 0,689
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

heptadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: heptadecane
Alternative Names: [n-heptadecane]
Formula: C17H36
Critical Pressure: 1300000 Pa
Critical Temperature: 733 K
Molar Critical Volume: 1000 cm3/mol
Melting Point: 295 K
Boiling Point: 575,2 K
Molecular Weight: 240,475
Acentric Factor: 0,77
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

helium-nitrogen [10-90] mix

Fluid Type: Mixture defined as mass percent
Fluid Name: helium-nitrogen [10-90] mix
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

helium

Fluid Type: Pure Newtonian Fluid
Fluid Name: helium
Alternative Names: []
Formula: He
Critical Pressure: 227000 Pa
Critical Temperature: 5,19 K
Molar Critical Volume: 57,3 cm3/mol
Melting Point: 1,76 K
Boiling Point: 4,22 K
Molecular Weight: 4,0026
Acentric Factor: -0,39
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

heliox 2%

Fluid Type: Mixture defined as mole percent
Fluid Name: heliox 2%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

HCl-O2 [81.5-18.5%] Mix

Fluid Type: Mixture defined as mass percent
Fluid Name: HCl-O2 [81.5-18.5%] Mix
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

HCL 36%

Fluid Type: Simple Newtonian Fluid
Fluid Name: HCL 36%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

H2SO4 50%

Fluid Type: Mixture defined as mass percent
Fluid Name: H2SO4 50%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

H2O2 6%

Fluid Type: Mixture defined as mass percent
Fluid Name: H2O2 6%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

H2O2 50%

Fluid Type: Mixture defined as mass percent
Fluid Name: H2O2 50%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

H2O2 31%

Fluid Type: Simple Newtonian Fluid
Fluid Name: H2O2 31%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

H2O2 30%

Fluid Type: Mixture defined as mass percent
Fluid Name: H2O2 30%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

gold fines d50-50micron

Fluid Name: gold fines d50-50micron
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Glycerol Mixture mit Benzylalkohol

Fluid Type: Simple Newtonian Fluid
Fluid Name: Glycerol Mixture mit Benzylalkohol
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

glycerol

Fluid Type: Pure Newtonian Fluid
Fluid Name: glycerol
Alternative Names: [glycerine]
Formula: C3H8O3
Critical Pressure: 6680000 Pa
Critical Temperature: 726 K
Molar Critical Volume: 255 cm3/mol
Melting Point: 291 K
Boiling Point: 563 K
Molecular Weight: 92,095
Acentric Factor: 0,28
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

glycerin 30%

Fluid Type: Mixture defined as mole percent
Fluid Name: glycerin 30%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

glutaronitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: glutaronitrile
Alternative Names: [trimethylene dicynaide]
Formula: C5H6N2
Critical Pressure: 3150000 Pa
Critical Temperature: 782 K
Molar Critical Volume: 352 cm3/mol
Melting Point: 244,2 K
Boiling Point: 559,2 K
Molecular Weight: 94,116
Acentric Factor: 0,603
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

glutaric anhydride

Fluid Type: Pure Newtonian Fluid
Fluid Name: glutaric anhydride
Alternative Names: []
Formula: C5H6O3
Critical Pressure: 5800000 Pa
Critical Temperature: 838 K
Molar Critical Volume: 275 cm3/mol
Melting Point: 328 K
Boiling Point: 562,69 K
Molecular Weight: 114,101
Acentric Factor: 0,537
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

glutaric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: glutaric acid
Alternative Names: []
Formula: C5H8O4
Critical Pressure: 4040000 Pa
Critical Temperature: 807 K
Molar Critical Volume: 363 cm3/mol
Melting Point: 370,7 K
Boiling Point: 595,5 K
Molecular Weight: 132,116
Acentric Factor: 0,959
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

GLP bol

Fluid Type: Simple Newtonian Fluid
Fluid Name: GLP bol
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

GLP 80-20

Fluid Type: Simple Newtonian Fluid
Fluid Name: GLP 80-20
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

GLP 70-30

Fluid Type: Simple Newtonian Fluid
Fluid Name: GLP 70-30
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

GE bol

Fluid Type: Simple Newtonian Fluid
Fluid Name: GE bol
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

gasolina natural

Fluid Type: Simple Newtonian Fluid
Fluid Name: gasolina natural
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

gamma-butrolacetone

Fluid Type: Pure Newtonian Fluid
Fluid Name: gamma-butrolacetone
Alternative Names: []
Formula: C4H6O2
Critical Pressure: 5940000 Pa
Critical Temperature: 739 K
Molar Critical Volume: 265 cm3/mol
Melting Point: 229,8 K
Boiling Point: 477,2 K
Molecular Weight: 86,09
Acentric Factor: 0,369
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

G95

Fluid Type: Simple Newtonian Fluid
Fluid Name: G95
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

G90

Fluid Type: Simple Newtonian Fluid
Fluid Name: G90
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

G84

Fluid Type: Simple Newtonian Fluid
Fluid Name: G84
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

furfuryl alcohol

Fluid Type: Pure Newtonian Fluid
Fluid Name: furfuryl alcohol
Alternative Names: []
Formula: C5H6O2
Critical Pressure: 5350000 Pa
Critical Temperature: 632 K
Molar Critical Volume: 263 cm3/mol
Melting Point: 258,5 K
Boiling Point: 443,2 K
Molecular Weight: 98,101
Acentric Factor: 0,736
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

furfural

Fluid Type: Pure Newtonian Fluid
Fluid Name: furfural
Alternative Names: []
Formula: C5H4O2
Critical Pressure: 5512000 Pa
Critical Temperature: 657 K
Molar Critical Volume: 252 cm3/mol
Melting Point: 236,7 K
Boiling Point: 434,9 K
Molecular Weight: 96,086
Acentric Factor: 0,444
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

furan

Fluid Type: Pure Newtonian Fluid
Fluid Name: furan
Alternative Names: [oxacyclopentadiene, oxole]
Formula: C4H4O
Critical Pressure: 5500000 Pa
Critical Temperature: 490,2 K
Molar Critical Volume: 218 cm3/mol
Melting Point: 187,5 K
Boiling Point: 304,5 K
Molecular Weight: 68,075
Acentric Factor: 0,209
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

fumaric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: fumaric acid
Alternative Names: []
Formula: C4H404
Critical Pressure: 4980000 Pa
Critical Temperature: 771 K
Molar Critical Volume: 297 cm3/mol
Melting Point: 560,2 K
Boiling Point: 563,2 K
Molecular Weight: 116,073
Acentric Factor: 0,989
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

fuel oil No6

Fluid Type: Simple Newtonian Fluid
Fluid Name: fuel oil No6
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

fuel oil No5

Fluid Type: Simple Newtonian Fluid
Fluid Name: fuel oil No5
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

fuel oil No4

Fluid Type: Simple Newtonian Fluid
Fluid Name: fuel oil No4
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

fuel oil No2

Fluid Type: Simple Newtonian Fluid
Fluid Name: fuel oil No2
Alternative Names: [diesel fuel oil, road diesel]
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

fuel oil No1

Fluid Type: Simple Newtonian Fluid
Fluid Name: fuel oil No1
Alternative Names: [kerosine]
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

fuel gas (methane/hydrogen - 80/20)

Fluid Type: Mixture defined as mass percent
Fluid Name: fuel gas (methane/hydrogen - 80/20)
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

formic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: formic acid
Alternative Names: [aminic acid, methanoic acid]
Formula: CH2O2
Critical Pressure: 7390000 Pa
Critical Temperature: 588 K
Molar Critical Volume: 124,988 cm3/mol
Melting Point: 281,4 K
Boiling Point: 374 K
Molecular Weight: 46,0256
Acentric Factor: 0,473
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

formanilide

Fluid Type: Pure Newtonian Fluid
Fluid Name: formanilide
Alternative Names: []
Formula: C7H7NO
Critical Pressure: 4110000 Pa
Critical Temperature: 787 K
Molar Critical Volume: 382 cm3/mol
Melting Point: 323,2 K
Boiling Point: 544,2 K
Molecular Weight: 121,139
Acentric Factor: 0,545
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

formamide

Fluid Type: Pure Newtonian Fluid
Fluid Name: formamide
Alternative Names: []
Formula: CH3NO
Critical Pressure: 7800000 Pa
Critical Temperature: 771 K
Molar Critical Volume: 163 cm3/mol
Melting Point: 275,7 K
Boiling Point: 493 K
Molecular Weight: 45,041
Acentric Factor: 0,453
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

formaldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: formaldehyde
Alternative Names: []
Formula: CH2O
Critical Pressure: 6590000 Pa
Critical Temperature: 408 K
Molar Critical Volume: 116 cm3/mol
Melting Point: 156 K
Boiling Point: 254 K
Molecular Weight: 30,026
Acentric Factor: 0,253
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Equation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Foam Concentrate

Fluid Type: Simple Newtonian Fluid
Fluid Name: Foam Concentrate
Alternative Names: []
Formula: ????
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Foam Concentrate

Fluid Type: Simple Newtonian Fluid
Fluid Name: Foam Concentrate
Alternative Names: []
Formula:
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

fluorothane

Fluid Type: Pure Newtonian Fluid
Fluid Name: fluorothane
Alternative Names: [2-bromo-2-chloro-1,1,1-trifluoroethane, halothane]
Formula: C2HBrClF3
Critical Pressure: 3920000 Pa
Critical Temperature: 521 K
Molar Critical Volume: 296 cm3/mol
Melting Point: 161,3 K
Boiling Point: 323,4 K
Molecular Weight: 197,382
Acentric Factor: 0,091
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

fluorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: fluorobenzene
Alternative Names: [phenyl flouride]
Formula: C6H5F
Critical Pressure: 4551000 Pa
Critical Temperature: 560 K
Molar Critical Volume: 269 cm3/mol
Melting Point: 230,9 K
Boiling Point: 357,8 K
Molecular Weight: 96,1039
Acentric Factor: 0,244
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

fluorine

Fluid Type: Pure Newtonian Fluid
Fluid Name: fluorine
Alternative Names: []
Formula: F2
Critical Pressure: 5172000 Pa
Critical Temperature: 144,3 K
Molar Critical Volume: 66,3 cm3/mol
Melting Point: 53,5 K
Boiling Point: 85 K
Molecular Weight: 37,9968
Acentric Factor: 0,054
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

fluoranthene

Fluid Type: Pure Newtonian Fluid
Fluid Name: fluoranthene
Alternative Names: [1,2-benzacenaphthene, idryl]
Formula: C16H10
Critical Pressure: 2610000 Pa
Critical Temperature: 905 K
Molar Critical Volume: 655 cm3/mol
Melting Point: 383,33 K
Boiling Point: 655,95 K
Molecular Weight: 202,255
Acentric Factor: 0,588
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

fairview gas

Fluid Type: Mixture defined as mass percent
Fluid Name: fairview gas
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

ethyllactat

Fluid Type: Simple Newtonian Fluid
Fluid Name: ethyllactat
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

ethylidene dibromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylidene dibromide
Alternative Names: [1,1-dibromethane]
Formula: C2H4Br2
Critical Pressure: 6030000 Pa
Critical Temperature: 628 K
Molar Critical Volume: 276 cm3/mol
Melting Point: 210,2 K
Boiling Point: 381,2 K
Molecular Weight: 187,862
Acentric Factor: 0,125
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

ethylhexanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylhexanol
Alternative Names: [2-ethyl-1-hexanol, 2-ethylhexyl alcohol]
Formula: C8H18O
Critical Pressure: 2730000 Pa
Critical Temperature: 640,25 K
Molar Critical Volume: 485 cm3/mol
Melting Point: 203,15 K
Boiling Point: 457,75 K
Molecular Weight: 130,23
Acentric Factor: 0,549
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyleneimine

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyleneimine
Alternative Names: [aziridine]
Formula: C2H5N
Critical Pressure: 6850000 Pa
Critical Temperature: 537 K
Molar Critical Volume: 173 cm3/mol
Melting Point: 195,2 K
Boiling Point: 329 K
Molecular Weight: 43,0682
Acentric Factor: 0,089
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylene tetrachloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene tetrachloride
Alternative Names: [tetrachloroethylene]
Formula: C2Cl4
Critical Pressure: 4760000 Pa
Critical Temperature: 620,2 K
Molar Critical Volume: 289,6 cm3/mol
Melting Point: 251 K
Boiling Point: 394,4 K
Molecular Weight: 165,834
Acentric Factor: 0,25
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylene sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene sulfide
Alternative Names: [thiacyclopropane]
Formula: C2H4S
Critical Pressure: 7380000 Pa
Critical Temperature: 555 K
Molar Critical Volume: 151,5 cm3/mol
Melting Point: 165,4 K
Boiling Point: 328,1 K
Molecular Weight: 60,114
Acentric Factor: 0,154
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylene oxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene oxide
Alternative Names: []
Formula: C2H4O
Critical Pressure: 7190000 Pa
Critical Temperature: 469 K
Molar Critical Volume: 140 cm3/mol
Melting Point: 161 K
Boiling Point: 283,7 K
Molecular Weight: 44,054
Acentric Factor: 0,202
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylene iodide

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene iodide
Alternative Names: [1,2-diiodoethane]
Formula: C2H4I2
Critical Pressure: 4730000 Pa
Critical Temperature: 750 K
Molar Critical Volume: 323,5 cm3/mol
Melting Point: 356 K
Boiling Point: 473,2 K
Molecular Weight: 281,863
Acentric Factor: 0,223
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

ethylene glycol solution 10%

Fluid Type: Mixture defined as mass percent
Fluid Name: ethylene glycol solution 10%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

ethylene glycol diacetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene glycol diacetate
Alternative Names: []
Formula: C6H10O4
Critical Pressure: 3090000 Pa
Critical Temperature: 653 K
Molar Critical Volume: 416 cm3/mol
Melting Point: 242,2 K
Boiling Point: 463,7 K
Molecular Weight: 146,143
Acentric Factor: 0,56
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Lucas]
Two-Phase Properties: [Data Provided]

ethylene glycol

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene glycol
Alternative Names: [glycol alcohol]
Formula: C2H6O2
Critical Pressure: 7700000 Pa
Critical Temperature: 718 K
Molar Critical Volume: 186 cm3/mol
Melting Point: 260 K
Boiling Point: 470,5 K
Molecular Weight: 62,0682
Acentric Factor: 0,5111
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylene dichloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene dichloride
Alternative Names: [1,2-dichloroethane]
Formula: C2H4Cl2
Critical Pressure: 5370000 Pa
Critical Temperature: 566 K
Molar Critical Volume: 225 cm3/mol
Melting Point: 237,5 K
Boiling Point: 356,7 K
Molecular Weight: 98,96
Acentric Factor: 0,278
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylene dibromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene dibromide
Alternative Names: [1,2-dibromethane]
Formula: C2H4Br2
Critical Pressure: 5477000 Pa
Critical Temperature: 650,2 K
Molar Critical Volume: 261,6 cm3/mol
Melting Point: 283 K
Boiling Point: 404,7 K
Molecular Weight: 187,862
Acentric Factor: 0,207
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylene diamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene diamine
Alternative Names: []
Formula: C2H8N2
Critical Pressure: 6280000 Pa
Critical Temperature: 593 K
Molar Critical Volume: 206 cm3/mol
Melting Point: 284 K
Boiling Point: 390 K
Molecular Weight: 60,0986
Acentric Factor: 0,51
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

ethylene cyanohydrin

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene cyanohydrin
Alternative Names: [hydracrylonitrile]
Formula: C3H5NO
Critical Pressure: 4890000 Pa
Critical Temperature: 690 K
Molar Critical Volume: 243 cm3/mol
Melting Point: 227,2 K
Boiling Point: 494,15 K
Molecular Weight: 71,079
Acentric Factor: 0,826
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

ethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylene
Alternative Names: [ethene]
Formula: C2H4
Critical Pressure: 5041000 Pa
Critical Temperature: 282,3 K
Molar Critical Volume: 131,1 cm3/mol
Melting Point: 104 K
Boiling Point: 169,42 K
Molecular Weight: 28,054
Acentric Factor: 0,087
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylcyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylcyclohexane
Alternative Names: []
Formula: C8H16
Critical Pressure: 3000000 Pa
Critical Temperature: 609 K
Molar Critical Volume: 450 cm3/mol
Melting Point: 161,8 K
Boiling Point: 404,9 K
Molecular Weight: 112,214
Acentric Factor: 0,243
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylamine
Alternative Names: [aminoethane]
Formula: C2H7N
Critical Pressure: 5640000 Pa
Critical Temperature: 456 K
Molar Critical Volume: 182 cm3/mol
Melting Point: 192 K
Boiling Point: 289,7 K
Molecular Weight: 45,085
Acentric Factor: 0,289
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylacetylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylacetylene
Alternative Names: [1-butyne]
Formula: C4H6
Critical Pressure: 4600000 Pa
Critical Temperature: 440 K
Molar Critical Volume: 208 cm3/mol
Melting Point: 147,4 K
Boiling Point: 281,23 K
Molecular Weight: 54,0914
Acentric Factor: 0,1182
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethylacetoacetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethylacetoacetate
Alternative Names: []
Formula: C6H10O3
Critical Pressure: 3270000 Pa
Critical Temperature: 643 K
Molar Critical Volume: 391 cm3/mol
Melting Point: 234,2 K
Boiling Point: 454 K
Molecular Weight: 130,144
Acentric Factor: 0,561
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl propyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl propyl ether
Alternative Names: []
Formula: C5H12O
Critical Pressure: 3370000 Pa
Critical Temperature: 500,23 K
Molar Critical Volume: 339 cm3/mol
Melting Point: 145,7 K
Boiling Point: 337 K
Molecular Weight: 88,15
Acentric Factor: 0,346
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl propionate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl propionate
Alternative Names: []
Formula: C5H10O2
Critical Pressure: 3362000 Pa
Critical Temperature: 546 K
Molar Critical Volume: 345 cm3/mol
Melting Point: 199,2 K
Boiling Point: 372,2 K
Molecular Weight: 102,133
Acentric Factor: 0,391
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

ethyl n-butyrate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl n-butyrate
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 3060000 Pa
Critical Temperature: 571 K
Molar Critical Volume: 421 cm3/mol
Melting Point: 175,2 K
Boiling Point: 394,7 K
Molecular Weight: 116,16
Acentric Factor: 0,419
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl mercaptan
Alternative Names: [ethanethiol, ethyl thioalcohol]
Formula: C2H6S
Critical Pressure: 5480000 Pa
Critical Temperature: 499 K
Molar Critical Volume: 207 cm3/mol
Melting Point: 125,6 K
Boiling Point: 308,2 K
Molecular Weight: 62,1294
Acentric Factor: 0,191
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl isovalerate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl isovalerate
Alternative Names: []
Formula: C7H14O2
Critical Pressure: 2840000 Pa
Critical Temperature: 587,95 K
Molar Critical Volume: 442 cm3/mol
Melting Point: 173,9 K
Boiling Point: 407,5 K
Molecular Weight: 130,187
Acentric Factor: 0,407
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl isobutyrate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl isobutyrate
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 3040000 Pa
Critical Temperature: 553,2 K
Molar Critical Volume: 410 cm3/mol
Melting Point: 185 K
Boiling Point: 383 K
Molecular Weight: 116,16
Acentric Factor: 0,426
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl iodide

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl iodide
Alternative Names: [iodoethane]
Formula: C2H5I
Critical Pressure: 5990000 Pa
Critical Temperature: 561 K
Molar Critical Volume: 238 cm3/mol
Melting Point: 162 K
Boiling Point: 345,5 K
Molecular Weight: 155,966
Acentric Factor: 0,184
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl chloroformate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl chloroformate
Alternative Names: []
Formula: C3H5ClO2
Critical Pressure: 4500000 Pa
Critical Temperature: 508 K
Molar Critical Volume: 274 cm3/mol
Melting Point: 192 K
Boiling Point: 366 K
Molecular Weight: 108,524
Acentric Factor: 0,835
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

ethyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl chloride
Alternative Names: [chlorethane]
Formula: C2H5Cl
Critical Pressure: 5270000 Pa
Critical Temperature: 460,4 K
Molar Critical Volume: 199 cm3/mol
Melting Point: 136,8 K
Boiling Point: 285,5 K
Molecular Weight: 64,515
Acentric Factor: 0,191
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl formate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl formate
Alternative Names: [ethyl methanoate]
Formula: C3H6O2
Critical Pressure: 4740000 Pa
Critical Temperature: 508,6 K
Molar Critical Volume: 229 cm3/mol
Melting Point: 193,8 K
Boiling Point: 327,5 K
Molecular Weight: 74,08
Acentric Factor: 0,285
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

ethyl cyclopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl cyclopentane
Alternative Names: []
Formula: C7H14
Critical Pressure: 3400000 Pa
Critical Temperature: 569,5 K
Molar Critical Volume: 375 cm3/mol
Melting Point: 134,7 K
Boiling Point: 376,6 K
Molecular Weight: 98,1876
Acentric Factor: 0,271
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl butyrate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl butyrate
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 2960000 Pa
Critical Temperature: 569 K
Molar Critical Volume: 421 cm3/mol
Melting Point: 180 K
Boiling Point: 394,7 K
Molecular Weight: 116,16
Acentric Factor: 0,461
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl bromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl bromide
Alternative Names: [bromoethane]
Formula: C2H5Br
Critical Pressure: 6230000 Pa
Critical Temperature: 503,9 K
Molar Critical Volume: 215 cm3/mol
Melting Point: 154,6 K
Boiling Point: 311,5 K
Molecular Weight: 108,966
Acentric Factor: 0,229
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl benzoate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl benzoate
Alternative Names: [benzioc ether]
Formula: C9H10O2
Critical Pressure: 2320000 Pa
Critical Temperature: 668,7 K
Molar Critical Volume: 451 cm3/mol
Melting Point: 238,3 K
Boiling Point: 485,7 K
Molecular Weight: 150,177
Acentric Factor: 0,48
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

ethyl benzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl benzene
Alternative Names: [phenylethane]
Formula: C8H10
Critical Pressure: 3600000 Pa
Critical Temperature: 617,2 K
Molar Critical Volume: 374 cm3/mol
Melting Point: 178,2 K
Boiling Point: 409,3 K
Molecular Weight: 106,168
Acentric Factor: 0,302
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethyl acrylate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl acrylate
Alternative Names: []
Formula: C5H8O2
Critical Pressure: 3740000 Pa
Critical Temperature: 552 K
Molar Critical Volume: 320 cm3/mol
Melting Point: 201 K
Boiling Point: 373 K
Molecular Weight: 100,118
Acentric Factor: 0,4
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

ethyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethyl acetate
Alternative Names: []
Formula: C4H8O2
Critical Pressure: 3830000 Pa
Critical Temperature: 523,2 K
Molar Critical Volume: 286 cm3/mol
Melting Point: 189,6 K
Boiling Point: 350,3 K
Molecular Weight: 88,107
Acentric Factor: 0,362
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethanol
Alternative Names: [ethyl alcohol]
Formula: C2H6O
Critical Pressure: 6148000 Pa
Critical Temperature: 513,9 K
Molar Critical Volume: 167 cm3/mol
Melting Point: 159,1 K
Boiling Point: 351,8 K
Molecular Weight: 46,0688
Acentric Factor: 0,644
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

ethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: ethane
Alternative Names: [methylmethane, dimethyl]
Formula: C2H6
Critical Pressure: 4872000 Pa
Critical Temperature: 305,3 K
Molar Critical Volume: 145,5 cm3/mol
Melting Point: 90,3 K
Boiling Point: 184,5 K
Molecular Weight: 30,0694
Acentric Factor: 0,099
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

epsilon-caprolactam

Fluid Type: Pure Newtonian Fluid
Fluid Name: epsilon-caprolactam
Alternative Names: []
Formula: C6H11NO
Critical Pressure: 4770000 Pa
Critical Temperature: 806 K
Molar Critical Volume: 356 cm3/mol
Melting Point: 342,4 K
Boiling Point: 543,2 K
Molecular Weight: 113,159
Acentric Factor: 0,477
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Engine Oil

Fluid Type: Simple Newtonian Fluid
Fluid Name: Engine Oil
Alternative Names: [ULT]
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

eicosene

Fluid Type: Pure Newtonian Fluid
Fluid Name: eicosene
Alternative Names: [cetylethylene]
Formula: C20H40
Critical Pressure: 1040000 Pa
Critical Temperature: 765,4 K
Molar Critical Volume: 1164,5 cm3/mol
Melting Point: 302 K
Boiling Point: 614,9 K
Molecular Weight: 280,536
Acentric Factor: 0,77
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

eicosane

Fluid Type: Pure Newtonian Fluid
Fluid Name: eicosane
Alternative Names: [n-eicosane]
Formula: C20H42
Critical Pressure: 1070000 Pa
Critical Temperature: 768 K
Molar Critical Volume: 1169 cm3/mol
Melting Point: 309,9 K
Boiling Point: 616 K
Molecular Weight: 282,552
Acentric Factor: 0,911
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dueterium oxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: dueterium oxide
Alternative Names: [heavy water]
Formula: D2O
Critical Pressure: 21600000 Pa
Critical Temperature: 644 K
Molar Critical Volume: 56,6 cm3/mol
Melting Point: 277 K
Boiling Point: 374,6 K
Molecular Weight: 20,031
Acentric Factor: 0,351
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

DSP+100

Fluid Type: Simple Newtonian Fluid
Fluid Name: DSP+100
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

DSP+ Mixture

Fluid Type: Mixture defined as mass percent
Fluid Name: DSP+ Mixture
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

dodecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: dodecene
Alternative Names: [1-dodecene]
Formula: C12H24
Critical Pressure: 1930000 Pa
Critical Temperature: 658 K
Molar Critical Volume: 688,5 cm3/mol
Melting Point: 237,9 K
Boiling Point: 486,9 K
Molecular Weight: 168,322
Acentric Factor: 0,558
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dodecanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: dodecanol
Alternative Names: [lauric alcohol, n-dodecyl alcohol]
Formula: C12H26O
Critical Pressure: 1994000 Pa
Critical Temperature: 719,4 K
Molar Critical Volume: 718 cm3/mol
Melting Point: 297 K
Boiling Point: 532 K
Molecular Weight: 186,337
Acentric Factor: 0,89
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dodecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: dodecane
Alternative Names: []
Formula: C12H26
Critical Pressure: 1820000 Pa
Critical Temperature: 658,2 K
Molar Critical Volume: 713 cm3/mol
Melting Point: 263,6 K
Boiling Point: 489,5 K
Molecular Weight: 170,34
Acentric Factor: 0,575
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

divinyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: divinyl ether
Alternative Names: []
Formula: C4H6O
Critical Pressure: 4250000 Pa
Critical Temperature: 463 K
Molar Critical Volume: 250 cm3/mol
Melting Point: 172 K
Boiling Point: 301,5 K
Molecular Weight: 70,091
Acentric Factor: 0,291
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

distillate oil

Fluid Type: Simple Newtonian Fluid
Fluid Name: distillate oil
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

disilane

Fluid Type: Pure Newtonian Fluid
Fluid Name: disilane
Alternative Names: []
Formula: N/A
Critical Pressure: 5130000 Pa
Critical Temperature: 432 K
Molar Critical Volume: 198 cm3/mol
Melting Point: 140,65 K
Boiling Point: 259 K
Molecular Weight: 62,219
Acentric Factor: 0,102
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Table]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dipropylene gylcol

Fluid Type: Pure Newtonian Fluid
Fluid Name: dipropylene gylcol
Alternative Names: []
Formula: C6H14O3
Critical Pressure: 3580000 Pa
Critical Temperature: 654 K
Molar Critical Volume: 415 cm3/mol
Melting Point: 233 K
Boiling Point: 505 K
Molecular Weight: 134,175
Acentric Factor: 1,198
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dipropylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: dipropylamine
Alternative Names: []
Formula: C6H15N
Critical Pressure: 3630000 Pa
Critical Temperature: 555,8 K
Molar Critical Volume: 407 cm3/mol
Melting Point: 210 K
Boiling Point: 382,4 K
Molecular Weight: 101,191
Acentric Factor: 0,471
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dipropyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: dipropyl ether
Alternative Names: []
Formula: C6H14O
Critical Pressure: 3028000 Pa
Critical Temperature: 530,6 K
Molar Critical Volume: 389,5 cm3/mol
Melting Point: 147 K
Boiling Point: 363,2 K
Molecular Weight: 102,176
Acentric Factor: 0,369
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diphenylmethane-4,4 - diisocyanate

Fluid Type: Pure Newtonian Fluid
Fluid Name: diphenylmethane-4,4 - diisocyanate
Alternative Names: []
Formula: C15H10N2O2
Critical Pressure: 2280000 Pa
Critical Temperature: 712 K
Molar Critical Volume: 802 cm3/mol
Melting Point: 311,2 K
Boiling Point: 609 K
Molecular Weight: 250,257
Acentric Factor: 0,95
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diphenyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: diphenyl ether
Alternative Names: [biphenol oxide, phenoxy benzene]
Formula: C12H10O
Critical Pressure: 3140000 Pa
Critical Temperature: 766,8 K
Molar Critical Volume: 503 cm3/mol
Melting Point: 300 K
Boiling Point: 531,2 K
Molecular Weight: 170,21
Acentric Factor: 0,441
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

diphenyl

Fluid Type: Pure Newtonian Fluid
Fluid Name: diphenyl
Alternative Names: [bibenzene, biphenyl]
Formula: C12H10
Critical Pressure: 3380000 Pa
Critical Temperature: 773 K
Molar Critical Volume: 497 cm3/mol
Melting Point: 342 K
Boiling Point: 529,2 K
Molecular Weight: 154,211
Acentric Factor: 0,372
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dioctyl phthalate

Fluid Type: Pure Newtonian Fluid
Fluid Name: dioctyl phthalate
Alternative Names: [1,2-benzenedicarboxylic acid, dioctyl ester]
Formula: C24H38O4
Critical Pressure: 1180000 Pa
Critical Temperature: 806 K
Molar Critical Volume: 1270 cm3/mol
Melting Point: 223,15 K
Boiling Point: 657,15 K
Molecular Weight: 390,563
Acentric Factor: 1,142
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

di-n-propyl sulfone

Fluid Type: Pure Newtonian Fluid
Fluid Name: di-n-propyl sulfone
Alternative Names: []
Formula: C6H14O2S
Critical Pressure: 3110000 Pa
Critical Temperature: 763 K
Molar Critical Volume: 463 cm3/mol
Melting Point: 303 K
Boiling Point: 543 K
Molecular Weight: 150,242
Acentric Factor: 0,582
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dinonylphenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: dinonylphenol
Alternative Names: [dinonyl-pheno, Dinonylphenol, Phenol]
Formula: C24H420
Critical Pressure: 1240000 Pa
Critical Temperature: 886 K
Molar Critical Volume: 1220 cm3/mol
Melting Point: 270 K
Boiling Point: 722 K
Molecular Weight: 346,597
Acentric Factor: 1,136
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

di-n-octyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: di-n-octyl ether
Alternative Names: [antar, caprylic ether, dioctylether]
Formula: C16H34O
Critical Pressure: 1440000 Pa
Critical Temperature: 707 K
Molar Critical Volume: 910 cm3/mol
Melting Point: 265,55 K
Boiling Point: 559,65 K
Molecular Weight: 242,445
Acentric Factor: 0,747
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dimethylethanolamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethylethanolamine
Alternative Names: []
Formula: C4H11NO
Critical Pressure: 4140000 Pa
Critical Temperature: 571,8 K
Molar Critical Volume: 300 cm3/mol
Melting Point: 214,2 K
Boiling Point: 407,2 K
Molecular Weight: 89,137
Acentric Factor: 0,711
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dimethylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethylamine
Alternative Names: []
Formula: C2H7N
Critical Pressure: 5340000 Pa
Critical Temperature: 437,2 K
Molar Critical Volume: 182,5 cm3/mol
Melting Point: 180,9 K
Boiling Point: 280 K
Molecular Weight: 45,084
Acentric Factor: 0,302
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dimethylamide acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethylamide acetate
Alternative Names: [dma, n,n-dimethylacetamide]
Formula: C4H9NO
Critical Pressure: 4030000 Pa
Critical Temperature: 658 K
Molar Critical Volume: 321 cm3/mol
Melting Point: 253,2 K
Boiling Point: 439,3 K
Molecular Weight: 87,122
Acentric Factor: 0,364
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dimethylaluminium chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethylaluminium chloride
Alternative Names: []
Formula: C2H6AlCl
Critical Pressure: 3620000 Pa
Critical Temperature: 619 K
Molar Critical Volume: 320 cm3/mol
Melting Point: 252,2 K
Boiling Point: 399,2 K
Molecular Weight: 92,054
Acentric Factor: 0,183
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dimethylacetylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethylacetylene
Alternative Names: [2-butyne]
Formula: C4H6
Critical Pressure: 5080000 Pa
Critical Temperature: 488,7 K
Molar Critical Volume: 221 cm3/mol
Melting Point: 240,8 K
Boiling Point: 300,12 K
Molecular Weight: 54,0914
Acentric Factor: 0,1305
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dimethyl sulfoxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethyl sulfoxide
Alternative Names: [dmso]
Formula: C2H6OS
Critical Pressure: 5650000 Pa
Critical Temperature: 726 K
Molar Critical Volume: 227 cm3/mol
Melting Point: 291,7 K
Boiling Point: 462,2 K
Molecular Weight: 78,1288
Acentric Factor: 0,209
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dimethyl sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethyl sulfide
Alternative Names: [dimethyl thioether, dms]
Formula: C2H6S
Critical Pressure: 5530000 Pa
Critical Temperature: 503 K
Molar Critical Volume: 201 cm3/mol
Melting Point: 174,8 K
Boiling Point: 310,5 K
Molecular Weight: 62,1294
Acentric Factor: 0,191
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dimethyl sulfate

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethyl sulfate
Alternative Names: [dms]
Formula: C2H6O4S
Critical Pressure: 5160000 Pa
Critical Temperature: 758 K
Molar Critical Volume: 293 cm3/mol
Melting Point: 241,4 K
Boiling Point: 462 K
Molecular Weight: 126,133
Acentric Factor: 0,089
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

dimethyl silane

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethyl silane
Alternative Names: []
Formula: C2H8Si
Critical Pressure: 3560000 Pa
Critical Temperature: 402 K
Molar Critical Volume: 258 cm3/mol
Melting Point: 122,9 K
Boiling Point: 253,6 K
Molecular Weight: 60,171
Acentric Factor: 0,132
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

dimethyl maleate

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethyl maleate
Alternative Names: []
Formula: C6H8O4
Critical Pressure: 3220000 Pa
Critical Temperature: 675 K
Molar Critical Volume: 403 cm3/mol
Melting Point: 254,2 K
Boiling Point: 478,2 K
Molecular Weight: 144,127
Acentric Factor: 0,562
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dimethyl formamide

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethyl formamide
Alternative Names: [dmf]
Formula: C3H7NO
Critical Pressure: 4420000 Pa
Critical Temperature: 647 K
Molar Critical Volume: 267 cm3/mol
Melting Point: 212,7 K
Boiling Point: 426,2 K
Molecular Weight: 73,095
Acentric Factor: 0,376
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

dimethyl disulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: dimethyl disulfide
Alternative Names: []
Formula: C2H6S2
Critical Pressure: 5360000 Pa
Critical Temperature: 605 K
Molar Critical Volume: 252 cm3/mol
Melting Point: 188,4 K
Boiling Point: 382,9 K
Molecular Weight: 94,202
Acentric Factor: 0,265
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

diketene

Fluid Type: Pure Newtonian Fluid
Fluid Name: diketene
Alternative Names: []
Formula: C4H4O2
Critical Pressure: 5960000 Pa
Critical Temperature: 616 K
Molar Critical Volume: 234 cm3/mol
Melting Point: 266,7 K
Boiling Point: 399,2 K
Molecular Weight: 84,075
Acentric Factor: 0,382
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

diisopropylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: diisopropylamine
Alternative Names: []
Formula: C6H15N
Critical Pressure: 3200000 Pa
Critical Temperature: 523,1 K
Molar Critical Volume: 418 cm3/mol
Melting Point: 176,9 K
Boiling Point: 357,1 K
Molecular Weight: 101,192
Acentric Factor: 0,388
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diisopropyl ketone

Fluid Type: Pure Newtonian Fluid
Fluid Name: diisopropyl ketone
Alternative Names: []
Formula: C7H14O
Critical Pressure: 3020000 Pa
Critical Temperature: 576 K
Molar Critical Volume: 416 cm3/mol
Melting Point: 204,8 K
Boiling Point: 397,6 K
Molecular Weight: 114,188
Acentric Factor: 0,405
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diisopropyl

Fluid Type: Pure Newtonian Fluid
Fluid Name: diisopropyl
Alternative Names: [2,3-dimethylbutane]
Formula: C6H14
Critical Pressure: 3130000 Pa
Critical Temperature: 500 K
Molar Critical Volume: 358 cm3/mol
Melting Point: 144,6 K
Boiling Point: 331,1 K
Molecular Weight: 86,178
Acentric Factor: 0,269
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diisopropanolamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: diisopropanolamine
Alternative Names: []
Formula: C6H15NO2
Critical Pressure: 3600000 Pa
Critical Temperature: 672 K
Molar Critical Volume: 454 cm3/mol
Melting Point: 318,15 K
Boiling Point: 521,9 K
Molecular Weight: 133,191
Acentric Factor: 1,389
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diisodecyl phthalate

Fluid Type: Pure Newtonian Fluid
Fluid Name: diisodecyl phthalate
Alternative Names: [1,2-Benzenedicarboxylic acid diisodecyl ester, Bis(8-methylnonyl) phthalate, DIDP]
Formula: C28H4604
Critical Pressure: 1000000 Pa
Critical Temperature: 887 K
Molar Critical Volume: 1460 cm3/mol
Melting Point: 227,59 K
Boiling Point: 723 K
Molecular Weight: 446,671
Acentric Factor: 1,076
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dichlorosilane

Fluid Type: Pure Newtonian Fluid
Fluid Name: dichlorosilane
Alternative Names: []
Formula: SiH2Cl2
Critical Pressure: 4430000 Pa
Critical Temperature: 449 K
Molar Critical Volume: 228 cm3/mol
Melting Point: 151,15 K
Boiling Point: 281,45 K
Molecular Weight: 101,007
Acentric Factor: 0,177
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dichloromethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: dichloromethane
Alternative Names: [methylene dichloride, freon 30]
Formula: CH2Cl2
Critical Pressure: 6100000 Pa
Critical Temperature: 510 K
Molar Critical Volume: 280 cm3/mol
Melting Point: 176 K
Boiling Point: 312,8 K
Molecular Weight: 84,9328
Acentric Factor: 0,199
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dichloroacetaldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: dichloroacetaldehyde
Alternative Names: [chloroaldehyde]
Formula: C2H2Cl2O
Critical Pressure: 4950000 Pa
Critical Temperature: 555 K
Molar Critical Volume: 245 cm3/mol
Melting Point: 223 K
Boiling Point: 362 K
Molecular Weight: 112,943
Acentric Factor: 0,344
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

dichloracetic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: dichloracetic acid
Alternative Names: []
Formula: C2H2O2Cl2
Critical Pressure: 5170000 Pa
Critical Temperature: 686 K
Molar Critical Volume: 265 cm3/mol
Melting Point: 286,6 K
Boiling Point: 467,2 K
Molecular Weight: 128,943
Acentric Factor: 0,555
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

dihexyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: dihexyl ether
Alternative Names: []
Formula: C12H260
Critical Pressure: 1820000 Pa
Critical Temperature: 657 K
Molar Critical Volume: 720 cm3/mol
Melting Point: 230 K
Boiling Point: 499,6 K
Molecular Weight: 186,339
Acentric Factor: 0,7
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

dihexyl adipate

Fluid Type: Pure Newtonian Fluid
Fluid Name: dihexyl adipate
Alternative Names: [adipicacid, dihexyl hexanedioate, hexanedioic acid dihexyl ester]
Formula: C18H34O4
Critical Pressure: 1320000 Pa
Critical Temperature: 767 K
Molar Critical Volume: 1030 cm3/mol
Melting Point: 259,35 K
Boiling Point: 621,15 K
Molecular Weight: 314,466
Acentric Factor: 1,094
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diglycolic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: diglycolic acid
Alternative Names: []
Formula: C4H6O5
Critical Pressure: 4420000 Pa
Critical Temperature: 820 K
Molar Critical Volume: 331 cm3/mol
Melting Point: 421,2 K
Boiling Point: 610 K
Molecular Weight: 134,089
Acentric Factor: 1,081
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diethylene triamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethylene triamine
Alternative Names: []
Formula: C4H13N3
Critical Pressure: 4220000 Pa
Critical Temperature: 676 K
Molar Critical Volume: 342 cm3/mol
Melting Point: 234,2 K
Boiling Point: 480,3 K
Molecular Weight: 103,167
Acentric Factor: 0,7
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diethylene glycol

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethylene glycol
Alternative Names: []
Formula: C4H10O3
Critical Pressure: 4700000 Pa
Critical Temperature: 681 K
Molar Critical Volume: 316 cm3/mol
Melting Point: 265 K
Boiling Point: 519 K
Molecular Weight: 106,121
Acentric Factor: 0,9533
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

diethylene dioxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethylene dioxide
Alternative Names: [1,4-dioxan, diethylene ether]
Formula: C4H8O2
Critical Pressure: 5210000 Pa
Critical Temperature: 587 K
Molar Critical Volume: 238 cm3/mol
Melting Point: 285 K
Boiling Point: 374,5 K
Molecular Weight: 88,107
Acentric Factor: 0,281
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diethyl sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethyl sulfide
Alternative Names: [3-thiapentane, diethyl thioether]
Formula: C4H10S
Critical Pressure: 3960000 Pa
Critical Temperature: 557 K
Molar Critical Volume: 318 cm3/mol
Melting Point: 169,2 K
Boiling Point: 365,3 K
Molecular Weight: 90,184
Acentric Factor: 0,292
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diethyl sulfate

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethyl sulfate
Alternative Names: []
Formula: C4H10O4S
Critical Pressure: 6890000 Pa
Critical Temperature: 792 K
Molar Critical Volume: 398 cm3/mol
Melting Point: 248 K
Boiling Point: 483 K
Molecular Weight: 154,187
Acentric Factor: 0,162
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

diethyl malonate

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethyl malonate
Alternative Names: []
Formula: C7H12O4
Critical Pressure: 2780000 Pa
Critical Temperature: 653 K
Molar Critical Volume: 469 cm3/mol
Melting Point: 224,3 K
Boiling Point: 472,1 K
Molecular Weight: 160,17
Acentric Factor: 0,611
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diethyl maleate

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethyl maleate
Alternative Names: [diethyl ester maleic acid, ethyl maleate]
Formula: C8H12O4
Critical Pressure: 2644582,5 Pa
Critical Temperature: 680 K
Molar Critical Volume: 508 cm3/mol
Melting Point: 264,35 K
Boiling Point: 498,15 K
Molecular Weight: 172,181
Acentric Factor: 0,666
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diethyl ketone

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethyl ketone
Alternative Names: [3-pentanone, propione]
Formula: C5H10O
Critical Pressure: 3730000 Pa
Critical Temperature: 561 K
Molar Critical Volume: 336 cm3/mol
Melting Point: 234,2 K
Boiling Point: 375,1 K
Molecular Weight: 86,134
Acentric Factor: 0,344
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

diethyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethyl ether
Alternative Names: []
Formula: C4H10O
Critical Pressure: 3640000 Pa
Critical Temperature: 466,7 K
Molar Critical Volume: 280 cm3/mol
Melting Point: 156,9 K
Boiling Point: 307,59 K
Molecular Weight: 74,123
Acentric Factor: 0,281
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diethyl disulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethyl disulfide
Alternative Names: []
Formula: C4H10S2
Critical Pressure: 3870000 Pa
Critical Temperature: 642 K
Molar Critical Volume: 358 cm3/mol
Melting Point: 171,6 K
Boiling Point: 427,1 K
Molecular Weight: 122,255
Acentric Factor: 0,346
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diethyl amine

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethyl amine
Alternative Names: []
Formula: C4H11N
Critical Pressure: 3710000 Pa
Critical Temperature: 496,5 K
Molar Critical Volume: 301 cm3/mol
Melting Point: 223,4 K
Boiling Point: 328,6 K
Molecular Weight: 73,139
Acentric Factor: 0,291
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

diethanolamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: diethanolamine
Alternative Names: []
Formula: C4H11NO2
Critical Pressure: 3270000 Pa
Critical Temperature: 715 K
Molar Critical Volume: 349 cm3/mol
Melting Point: 301,2 K
Boiling Point: 542 K
Molecular Weight: 105,137
Acentric Factor: 1,046
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

dieso f-76

Fluid Type: Simple Newtonian Fluid
Fluid Name: dieso f-76
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

diesel oil

Fluid Type: Simple Newtonian Fluid
Fluid Name: diesel oil
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Diesel

Fluid Type: Simple Newtonian Fluid
Fluid Name: Diesel
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

dicumyl peroxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: dicumyl peroxide
Alternative Names: [bis(1-methyl-1-phenylethyl) peroxide, bis(alpha,alpha-dimethylbenzyl)peroxide]
Formula: C18H22O2
Critical Pressure: 2180000 Pa
Critical Temperature: 884 K
Molar Critical Volume: 873 cm3/mol
Melting Point: 311,15 K
Boiling Point: 669 K
Molecular Weight: 270,371
Acentric Factor: 0,45
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dibutyl sebacate

Fluid Type: Pure Newtonian Fluid
Fluid Name: dibutyl sebacate
Alternative Names: [decanedioic acid, dibutyl ester, sebacic acid]
Formula: C18H34O4
Critical Pressure: 1320000 Pa
Critical Temperature: 768 K
Molar Critical Volume: 1050 cm3/mol
Melting Point: 263,95 K
Boiling Point: 622,15 K
Molecular Weight: 314,466
Acentric Factor: 1,126
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dibutyl phthalate

Fluid Type: Pure Newtonian Fluid
Fluid Name: dibutyl phthalate
Alternative Names: [di-n-butyl phthalate, elaol, n-butyl phthalate]
Formula: C16H22O4
Critical Pressure: 1750000 Pa
Critical Temperature: 781 K
Molar Critical Volume: 846 cm3/mol
Melting Point: 238,15 K
Boiling Point: 613,15 K
Molecular Weight: 278,348
Acentric Factor: 0,947
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dibutyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: dibutyl ether
Alternative Names: [butyl oxide]
Formula: C8H18O
Critical Pressure: 3010000 Pa
Critical Temperature: 584,1 K
Molar Critical Volume: 500 cm3/mol
Melting Point: 178 K
Boiling Point: 413,5 K
Molecular Weight: 130,23
Acentric Factor: 0,502
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

dibutyl amine

Fluid Type: Pure Newtonian Fluid
Fluid Name: dibutyl amine
Alternative Names: []
Formula: C8H19N
Critical Pressure: 3110000 Pa
Critical Temperature: 607,5 K
Molar Critical Volume: 517 cm3/mol
Melting Point: 211 K
Boiling Point: 432,8 K
Molecular Weight: 129,245
Acentric Factor: 0,58
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

dibromodifluoromethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: dibromodifluoromethane
Alternative Names: [freon12-b2]
Formula: CBr2F2
Critical Pressure: 4130000 Pa
Critical Temperature: 471,3 K
Molar Critical Volume: 249 cm3/mol
Melting Point: 163 K
Boiling Point: 295,9 K
Molecular Weight: 209,816
Acentric Factor: 0,2
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

diborane

Fluid Type: Pure Newtonian Fluid
Fluid Name: diborane
Alternative Names: []
Formula: B2H6
Critical Pressure: 4053000 Pa
Critical Temperature: 289,8 K
Molar Critical Volume: 173,1 cm3/mol
Melting Point: 107,65 K
Boiling Point: 180,65 K
Molecular Weight: 27,67
Acentric Factor: 0,125
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

desmophen

Fluid Type: Simple Newtonian Fluid
Fluid Name: desmophen
Alternative Names: []
Formula: polyester resin
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

decyl-disulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: decyl-disulfide
Alternative Names: [1-(Decyldisulfanyl)decane, didecyl, disulfide]
Formula: C20H42S2
Critical Pressure: 1038000 Pa
Critical Temperature: 820,08 K
Molar Critical Volume: 1263,5 cm3/mol
Melting Point: 259,16 K
Boiling Point: 663,16 K
Molecular Weight: 346,672
Acentric Factor: 0,83
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

decene

Fluid Type: Pure Newtonian Fluid
Fluid Name: decene
Alternative Names: [decylene]
Formula: C10H20
Critical Pressure: 2220000 Pa
Critical Temperature: 617 K
Molar Critical Volume: 584 cm3/mol
Melting Point: 206,9 K
Boiling Point: 443,6 K
Molecular Weight: 140,268
Acentric Factor: 0,491
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

decanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: decanol
Alternative Names: [1-decanol, capric alcohol, n decyl alcohol, nonyl carbinol]
Formula: C10H22O
Critical Pressure: 2315000 Pa
Critical Temperature: 687,3 K
Molar Critical Volume: 649 cm3/mol
Melting Point: 280 K
Boiling Point: 504,2 K
Molecular Weight: 158,283
Acentric Factor: 0,89
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

decane

Fluid Type: Pure Newtonian Fluid
Fluid Name: decane
Alternative Names: [n-decane]
Formula: C10H22
Critical Pressure: 2110000 Pa
Critical Temperature: 617,7 K
Molar Critical Volume: 624 cm3/mol
Melting Point: 243,4 K
Boiling Point: 447,3 K
Molecular Weight: 142,284
Acentric Factor: 0,489
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

decafluorobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: decafluorobutane
Alternative Names: []
Formula: C4F10
Critical Pressure: 2323000 Pa
Critical Temperature: 386,4 K
Molar Critical Volume: 397 cm3/mol
Melting Point: 145 K
Boiling Point: 271,2 K
Molecular Weight: 238,028
Acentric Factor: 0,372
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

cyclopropane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclopropane
Alternative Names: [trimethylene]
Formula: C3H6
Critical Pressure: 5490000 Pa
Critical Temperature: 397,8 K
Molar Critical Volume: 163 cm3/mol
Melting Point: 145,7 K
Boiling Point: 240,3 K
Molecular Weight: 42,081
Acentric Factor: 0,13
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclopentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclopentene
Alternative Names: []
Formula: C5H8
Critical Pressure: 4800000 Pa
Critical Temperature: 506,5 K
Molar Critical Volume: 245 cm3/mol
Melting Point: 138 K
Boiling Point: 317,4 K
Molecular Weight: 68,1182
Acentric Factor: 0,206
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclopentatiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclopentatiene
Alternative Names: []
Formula: C5H6
Critical Pressure: 5150000 Pa
Critical Temperature: 507 K
Molar Critical Volume: 225 cm3/mol
Melting Point: 188,2 K
Boiling Point: 314,7 K
Molecular Weight: 66,103
Acentric Factor: 0,212
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclopentanone

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclopentanone
Alternative Names: [adipic ketone]
Formula: C5H8O
Critical Pressure: 4600000 Pa
Critical Temperature: 624,5 K
Molar Critical Volume: 268 cm3/mol
Melting Point: 221,8 K
Boiling Point: 403,7 K
Molecular Weight: 84,1176
Acentric Factor: 0,35
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

cyclopentanethiol

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclopentanethiol
Alternative Names: []
Formula: C5H10S
Critical Pressure: 4270000 Pa
Critical Temperature: 629 K
Molar Critical Volume: 310,5 cm3/mol
Melting Point: 155,4 K
Boiling Point: 405,3 K
Molecular Weight: 102,194
Acentric Factor: 0,262
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclopentane
Alternative Names: []
Formula: C5H10
Critical Pressure: 4510000 Pa
Critical Temperature: 511,7 K
Molar Critical Volume: 260 cm3/mol
Melting Point: 179,3 K
Boiling Point: 322,4 K
Molecular Weight: 70,135
Acentric Factor: 0,196
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclohexylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclohexylamine
Alternative Names: [aminocyclohexane]
Formula: C6H13N
Critical Pressure: 4200000 Pa
Critical Temperature: 615 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 255,45 K
Boiling Point: 407,65 K
Molecular Weight: 99,176
Acentric Factor: 0,36
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclohexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclohexene
Alternative Names: []
Formula: C6H10
Critical Pressure: 4350000 Pa
Critical Temperature: 560,4 K
Molar Critical Volume: 291 cm3/mol
Melting Point: 169,7 K
Boiling Point: 356,1 K
Molecular Weight: 82,145
Acentric Factor: 0,214
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclohexanone oxime

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclohexanone oxime
Alternative Names: []
Formula: C6H11N0
Critical Pressure: 4690000 Pa
Critical Temperature: 715 K
Molar Critical Volume: 369 cm3/mol
Melting Point: 363,2 K
Boiling Point: 481,2 K
Molecular Weight: 113,159
Acentric Factor: 0,462
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclohexanone

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclohexanone
Alternative Names: []
Formula: C6H10O
Critical Pressure: 4000000 Pa
Critical Temperature: 653 K
Molar Critical Volume: 312 cm3/mol
Melting Point: 242 K
Boiling Point: 428,6 K
Molecular Weight: 98,1444
Acentric Factor: 0,442
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclohexanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclohexanol
Alternative Names: [adronal, cyclohexyl alcohol]
Formula: C6H12O
Critical Pressure: 4260000 Pa
Critical Temperature: 650,1 K
Molar Critical Volume: 327 cm3/mol
Melting Point: 298,6 K
Boiling Point: 434 K
Molecular Weight: 100,161
Acentric Factor: 0,528
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclohexane
Alternative Names: []
Formula: C6H12
Critical Pressure: 4070000 Pa
Critical Temperature: 553,8 K
Molar Critical Volume: 308 cm3/mol
Melting Point: 279,6 K
Boiling Point: 353,8 K
Molecular Weight: 84,162
Acentric Factor: 0,212
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cycloheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cycloheptane
Alternative Names: []
Formula: C7H14
Critical Pressure: 3820000 Pa
Critical Temperature: 604,2 K
Molar Critical Volume: 353 cm3/mol
Melting Point: 265,1 K
Boiling Point: 391,6 K
Molecular Weight: 98,1876
Acentric Factor: 0,237
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclobutene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclobutene
Alternative Names: []
Formula: C4H6
Critical Pressure: 5270000 Pa
Critical Temperature: 446,3 K
Molar Critical Volume: 195,5 cm3/mol
Melting Point: 153,8 K
Boiling Point: 275,8 K
Molecular Weight: 54,091
Acentric Factor: 0,189
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyclobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyclobutane
Alternative Names: []
Formula: C4H8
Critical Pressure: 4990000 Pa
Critical Temperature: 460 K
Molar Critical Volume: 210 cm3/mol
Melting Point: 182,4 K
Boiling Point: 285,7 K
Molecular Weight: 56,108
Acentric Factor: 0,181
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cyanogen chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyanogen chloride
Alternative Names: [chlorine cyanide]
Formula: CClN
Critical Pressure: 5990000 Pa
Critical Temperature: 449 K
Molar Critical Volume: 163 cm3/mol
Melting Point: 266,65 K
Boiling Point: 286 K
Molecular Weight: 61,47
Acentric Factor: 0,32
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

cyanogen

Fluid Type: Pure Newtonian Fluid
Fluid Name: cyanogen
Alternative Names: []
Formula: C2N2
Critical Pressure: 5978000 Pa
Critical Temperature: 400,2 K
Molar Critical Volume: 195 cm3/mol
Melting Point: 245,3 K
Boiling Point: 252 K
Molecular Weight: 52,036
Acentric Factor: 0,279
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

cumene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cumene
Alternative Names: [isopropylbenzene]
Formula: C9H12
Critical Pressure: 3290000 Pa
Critical Temperature: 631 K
Molar Critical Volume: 434,7 cm3/mol
Melting Point: 177,1 K
Boiling Point: 425,5 K
Molecular Weight: 120,194
Acentric Factor: 0,326
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

CS222 PGMEA /PGME

Fluid Type: Simple Newtonian Fluid
Fluid Name: CS222 PGMEA /PGME
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

crudo yanayacu

Fluid Type: Simple Newtonian Fluid
Fluid Name: crudo yanayacu
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

crudo natural yanayacu

Fluid Type: Simple Newtonian Fluid
Fluid Name: crudo natural yanayacu
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

crudo lote x

Fluid Type: Simple Newtonian Fluid
Fluid Name: crudo lote x
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

crudo

Fluid Type: Simple Newtonian Fluid
Fluid Name: crudo
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

crotonaldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: crotonaldehyde
Alternative Names: [propylene aldehyde]
Formula: C4H6O
Critical Pressure: 4250000 Pa
Critical Temperature: 571 K
Molar Critical Volume: 250 cm3/mol
Melting Point: 196,7 K
Boiling Point: 377,3 K
Molecular Weight: 70,091
Acentric Factor: 0,346
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

crane gas test

Fluid Type: Mixture defined as mass percent
Fluid Name: crane gas test
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

coke fuel gas

Fluid Type: Mixture defined as mole percent
Fluid Name: coke fuel gas
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

coke flue Gas

Fluid Type: Mixture defined as mass percent
Fluid Name: coke flue Gas
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

citraconic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: citraconic acid
Alternative Names: []
Formula: C5H6O4
Critical Pressure: 4240000 Pa
Critical Temperature: 829 K
Molar Critical Volume: 340 cm3/mol
Melting Point: 356,15 K
Boiling Point: 607 K
Molecular Weight: 130,1
Acentric Factor: 0,927
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-crotonitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-crotonitrile
Alternative Names: []
Formula: C4H5N
Critical Pressure: 3880000 Pa
Critical Temperature: 568 K
Molar Critical Volume: 365 cm3/mol
Melting Point: 200,6 K
Boiling Point: 380,6 K
Molecular Weight: 67,09
Acentric Factor: 0,397
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

cis-crotonic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-crotonic acid
Alternative Names: [isocrotonic acid]
Formula: C4H6O2
Critical Pressure: 4700000 Pa
Critical Temperature: 647 K
Molar Critical Volume: 270 cm3/mol
Melting Point: 288,7 K
Boiling Point: 445,1 K
Molecular Weight: 86,09
Acentric Factor: 0,572
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-3-methylcyclohexanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-3-methylcyclohexanol
Alternative Names: []
Formula: C7H14O
Critical Pressure: 3790000 Pa
Critical Temperature: 618 K
Molar Critical Volume: 414 cm3/mol
Melting Point: 267,7 K
Boiling Point: 441,2 K
Molecular Weight: 114,188
Acentric Factor: 0,704
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-3-hexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-3-hexene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3280000 Pa
Critical Temperature: 517 K
Molar Critical Volume: 350 cm3/mol
Melting Point: 135,3 K
Boiling Point: 339,6 K
Molecular Weight: 84,1608
Acentric Factor: 0,225
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-3-heptene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-3-heptene
Alternative Names: []
Formula: C7H14
Critical Pressure: 2840000 Pa
Critical Temperature: 545 K
Molar Critical Volume: 421 cm3/mol
Melting Point: 136,5 K
Boiling Point: 368,9 K
Molecular Weight: 98,188
Acentric Factor: 0,295
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-2-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-2-pentene
Alternative Names: []
Formula: C5H10
Critical Pressure: 3690000 Pa
Critical Temperature: 475 K
Molar Critical Volume: 295,5 cm3/mol
Melting Point: 121,7 K
Boiling Point: 310,1 K
Molecular Weight: 70,134
Acentric Factor: 0,251
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-2-methylcyclohexanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-2-methylcyclohexanol
Alternative Names: []
Formula: C7H14O
Critical Pressure: 3790000 Pa
Critical Temperature: 614 K
Molar Critical Volume: 414 cm3/mol
Melting Point: 280,2 K
Boiling Point: 438,2 K
Molecular Weight: 114,188
Acentric Factor: 0,679
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-2-hexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-2-hexene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3280000 Pa
Critical Temperature: 518 K
Molar Critical Volume: 351 cm3/mol
Melting Point: 132 K
Boiling Point: 342 K
Molecular Weight: 84,162
Acentric Factor: 0,256
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-2-heptene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-2-heptene
Alternative Names: []
Formula: C7H14
Critical Pressure: 2840000 Pa
Critical Temperature: 549 K
Molar Critical Volume: 424 cm3/mol
Melting Point: 164 K
Boiling Point: 371,6 K
Molecular Weight: 98,188
Acentric Factor: 0,294
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-2-butene-1,4-diol

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-2-butene-1,4-diol
Alternative Names: [1,4-butendiol]
Formula: C4H8O2
Critical Pressure: 5200000 Pa
Critical Temperature: 677,9 K
Molar Critical Volume: 279 cm3/mol
Melting Point: 284,2 K
Boiling Point: 508,2 K
Molecular Weight: 88,106
Acentric Factor: 1,174
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-2-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-2-butene
Alternative Names: []
Formula: C4H8
Critical Pressure: 4200000 Pa
Critical Temperature: 435,6 K
Molar Critical Volume: 234 cm3/mol
Melting Point: 134,3 K
Boiling Point: 276,9 K
Molecular Weight: 56,108
Acentric Factor: 0,202
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-1-phenylpropene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-1-phenylpropene
Alternative Names: [cis-beta-methylstyrene]
Formula: C9H10
Critical Pressure: 3460000 Pa
Critical Temperature: 664,6 K
Molar Critical Volume: 411,5 cm3/mol
Melting Point: 211 K
Boiling Point: 443,2 K
Molecular Weight: 118,178
Acentric Factor: 0,316
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Lucas]
Two-Phase Properties: [Estimated]

cis-1,4-dimethylcyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-1,4-dimethylcyclohexane
Alternative Names: []
Formula: C8H16
Critical Pressure: 2900000 Pa
Critical Temperature: 598 K
Molar Critical Volume: 471,3 cm3/mol
Melting Point: 185,7 K
Boiling Point: 397,6 K
Molecular Weight: 112,214
Acentric Factor: 0,234
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-1,3-pentadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-1,3-pentadiene
Alternative Names: []
Formula: C5H8
Critical Pressure: 3740000 Pa
Critical Temperature: 499 K
Molar Critical Volume: 276 cm3/mol
Melting Point: 132,4 K
Boiling Point: 317,2 K
Molecular Weight: 68,118
Acentric Factor: 0,147
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-1,3-dimethylcyclopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-1,3-dimethylcyclopentane
Alternative Names: []
Formula: C7H14
Critical Pressure: 3445000 Pa
Critical Temperature: 551 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 139,45 K
Boiling Point: 363,92 K
Molecular Weight: 98,188
Acentric Factor: 0,274
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-1,3-dimethylcyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-1,3-dimethylcyclohexane
Alternative Names: []
Formula: C8H16
Critical Pressure: 2900000 Pa
Critical Temperature: 591 K
Molar Critical Volume: 448,9 cm3/mol
Melting Point: 197,6 K
Boiling Point: 393,3 K
Molecular Weight: 112,214
Acentric Factor: 0,224
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-1,2-dimethylcyclopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-1,2-dimethylcyclopentane
Alternative Names: []
Formula: C7H14
Critical Pressure: 3440000 Pa
Critical Temperature: 564,8 K
Molar Critical Volume: 368 cm3/mol
Melting Point: 219,3 K
Boiling Point: 372,7 K
Molecular Weight: 98,1876
Acentric Factor: 0,269
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-1,2-dimethylcyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-1,2-dimethylcyclohexane
Alternative Names: []
Formula: C8H16
Critical Pressure: 2940000 Pa
Critical Temperature: 606 K
Molar Critical Volume: 471,3 cm3/mol
Melting Point: 223 K
Boiling Point: 402,9 K
Molecular Weight: 112,214
Acentric Factor: 0,236
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-1,2-dichloroethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-1,2-dichloroethylene
Alternative Names: []
Formula: C2H2Cl2
Critical Pressure: 5600000 Pa
Critical Temperature: 544 K
Molar Critical Volume: 224 cm3/mol
Melting Point: 193 K
Boiling Point: 333,3 K
Molecular Weight: 96,9438
Acentric Factor: 0,264
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

cis-1,2-difluoroethene

Fluid Type: Pure Newtonian Fluid
Fluid Name: cis-1,2-difluoroethene
Alternative Names: []
Formula: C2H2F2
Critical Pressure: 4769000 Pa
Critical Temperature: 394,7 K
Molar Critical Volume: 163,5 cm3/mol
Melting Point: 107,9 K
Boiling Point: 247,9 K
Molecular Weight: 64,035
Acentric Factor: 0,21
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Ceroxid

Fluid Type: Simple Newtonian Fluid
Fluid Name: Ceroxid
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

cellulose acetate solution 4%

Fluid Name: cellulose acetate solution 4%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

caustic soda solution-50%

Fluid Type: Simple Newtonian Fluid
Fluid Name: caustic soda solution-50%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

caustic soda solution-30%

Fluid Type: Simple Newtonian Fluid
Fluid Name: caustic soda solution-30%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

caustic soda solution 25%

Fluid Type: Simple Newtonian Fluid
Fluid Name: caustic soda solution 25%
Alternative Names: []
Formula: NaOH
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

caustic potash-50%

Fluid Type: Simple Newtonian Fluid
Fluid Name: caustic potash-50%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

castor oil

Fluid Type: Simple Newtonian Fluid
Fluid Name: castor oil
Alternative Names: [ricinus communis]
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

carrageenan gum 1% as Power Law

Fluid Name: carrageenan gum 1% as Power Law
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Power Law]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

carrageenan gum 1% as Hershel Bulkley

Fluid Name: carrageenan gum 1% as Hershel Bulkley
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Herschel Bulkley]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

carrageenan gum 1% as Casson

Fluid Name: carrageenan gum 1% as Casson
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Casson]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

carrageenan gum 1% as Bingham

Fluid Name: carrageenan gum 1% as Bingham
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

carbonyl sulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: carbonyl sulfide
Alternative Names: []
Formula: COS
Critical Pressure: 6350000 Pa
Critical Temperature: 378,8 K
Molar Critical Volume: 136,3 cm3/mol
Melting Point: 134,3 K
Boiling Point: 223 K
Molecular Weight: 60,07
Acentric Factor: 0,105
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

carbonyl fluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: carbonyl fluoride
Alternative Names: []
Formula: CF2O
Critical Pressure: 5760000 Pa
Critical Temperature: 297 K
Molar Critical Volume: 141 cm3/mol
Melting Point: 161,9 K
Boiling Point: 188,6 K
Molecular Weight: 66,007
Acentric Factor: 0,283
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

carbon monoxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: carbon monoxide
Alternative Names: [carbonic oxide]
Formula: CO
Critical Pressure: 3499000 Pa
Critical Temperature: 132,9 K
Molar Critical Volume: 93,05 cm3/mol
Melting Point: 68 K
Boiling Point: 81,6 K
Molecular Weight: 28,0104
Acentric Factor: 0,066
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

carbon disulfide

Fluid Type: Pure Newtonian Fluid
Fluid Name: carbon disulfide
Alternative Names: []
Formula: CS2
Critical Pressure: 7900000 Pa
Critical Temperature: 552 K
Molar Critical Volume: 160 cm3/mol
Melting Point: 161,3 K
Boiling Point: 319 K
Molecular Weight: 76,131
Acentric Factor: 0,109
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Wagner Equation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

carbon dioxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: carbon dioxide
Alternative Names: [carbonic anhydride]
Formula: CO2
Critical Pressure: 7375000 Pa
Critical Temperature: 304,1 K
Molar Critical Volume: 94,05 cm3/mol
Melting Point: 216,6 K
Boiling Point: 194,7 K
Molecular Weight: 44,0098
Acentric Factor: 0,225
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Caramel

Fluid Type: Simple Newtonian Fluid
Fluid Name: Caramel
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

CA215 KDSP100

Fluid Type: Simple Newtonian Fluid
Fluid Name: CA215 KDSP100
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

CA211 Schwefelsäure 96%

Fluid Type: Simple Newtonian Fluid
Fluid Name: CA211 Schwefelsäure 96%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

CA211 H2SO4 96%

Fluid Type: Simple Newtonian Fluid
Fluid Name: CA211 H2SO4 96%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

butyric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyric acid
Alternative Names: [ethylacetic acid, propylformic acid]
Formula: C4H8O2
Critical Pressure: 5270000 Pa
Critical Temperature: 628 K
Molar Critical Volume: 290 cm3/mol
Melting Point: 267,9 K
Boiling Point: 437,2 K
Molecular Weight: 88,107
Acentric Factor: 0,683
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butyraldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyraldehyde
Alternative Names: [butanal, butyraldehyde]
Formula: C4H8O
Critical Pressure: 4320000 Pa
Critical Temperature: 537,2 K
Molar Critical Volume: 258 cm3/mol
Melting Point: 174 K
Boiling Point: 347,9 K
Molecular Weight: 72,1066
Acentric Factor: 0,352
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butynediol

Fluid Type: Pure Newtonian Fluid
Fluid Name: butynediol
Alternative Names: [1,4-butynediol, 2-butyne-1,4-diol]
Formula: C6H6O2
Critical Pressure: 5860000 Pa
Critical Temperature: 695 K
Molar Critical Volume: 256 cm3/mol
Melting Point: 331 K
Boiling Point: 511,2 K
Molecular Weight: 86,09
Acentric Factor: 1,134
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butyl vinyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyl vinyl ether
Alternative Names: []
Formula: C6H12O
Critical Pressure: 3120000 Pa
Critical Temperature: 536 K
Molar Critical Volume: 364 cm3/mol
Melting Point: 181,2 K
Boiling Point: 367 K
Molecular Weight: 100,161
Acentric Factor: 0,38
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butyl mercaptan

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyl mercaptan
Alternative Names: [1-butanethiol]
Formula: C4H10S
Critical Pressure: 3970000 Pa
Critical Temperature: 569 K
Molar Critical Volume: 307 cm3/mol
Melting Point: 157,5 K
Boiling Point: 371,6 K
Molecular Weight: 90,189
Acentric Factor: 0,278
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyl chloride
Alternative Names: [n-chlorobutane]
Formula: C4H9Cl
Critical Pressure: 3680000 Pa
Critical Temperature: 542 K
Molar Critical Volume: 312 cm3/mol
Melting Point: 150,1 K
Boiling Point: 351,6 K
Molecular Weight: 92,569
Acentric Factor: 0,218
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butyl formate

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyl formate
Alternative Names: []
Formula: C5H10O2
Critical Pressure: 3510000 Pa
Critical Temperature: 559 K
Molar Critical Volume: 336 cm3/mol
Melting Point: 181,3 K
Boiling Point: 379,3 K
Molecular Weight: 102,133
Acentric Factor: 0,384
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butyl ethyl ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyl ethyl ether
Alternative Names: [1-ethoxybutane]
Formula: C6H14O
Critical Pressure: 3040000 Pa
Critical Temperature: 531 K
Molar Critical Volume: 390 cm3/mol
Melting Point: 170 K
Boiling Point: 365,4 K
Molecular Weight: 102,176
Acentric Factor: 0,4
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butyl bromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyl bromide
Alternative Names: [1-bromobutane]
Formula: C4H9Br
Critical Pressure: 4540000 Pa
Critical Temperature: 577 K
Molar Critical Volume: 319 cm3/mol
Melting Point: 160,8 K
Boiling Point: 374,8 K
Molecular Weight: 137,019
Acentric Factor: 0,323
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butyl benzoate

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyl benzoate
Alternative Names: []
Formula: C11H1402
Critical Pressure: 2600000 Pa
Critical Temperature: 723 K
Molar Critical Volume: 561 cm3/mol
Melting Point: 251 K
Boiling Point: 523 K
Molecular Weight: 178,232
Acentric Factor: 0,58
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

butyl amine

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyl amine
Alternative Names: []
Formula: C4H11N
Critical Pressure: 4250000 Pa
Critical Temperature: 531,9 K
Molar Critical Volume: 277 cm3/mol
Melting Point: 224,1 K
Boiling Point: 350,1 K
Molecular Weight: 73,138
Acentric Factor: 0,329
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

butyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: butyl acetate
Alternative Names: [n-butyl acetate]
Formula: C6H12O2
Critical Pressure: 3140000 Pa
Critical Temperature: 579 K
Molar Critical Volume: 400 cm3/mol
Melting Point: 199,7 K
Boiling Point: 399,3 K
Molecular Weight: 116,16
Acentric Factor: 0,417
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: butene
Alternative Names: [1-butene]
Formula: C4H8
Critical Pressure: 4020000 Pa
Critical Temperature: 419,5 K
Molar Critical Volume: 240,8 cm3/mol
Melting Point: 87,8 K
Boiling Point: 266,92 K
Molecular Weight: 56,108
Acentric Factor: 0,194
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: butanol
Alternative Names: []
Formula: C4H10O
Critical Pressure: 4414000 Pa
Critical Temperature: 563,1 K
Molar Critical Volume: 274 cm3/mol
Melting Point: 183,4 K
Boiling Point: 390,88 K
Molecular Weight: 74,123
Acentric Factor: 0,59
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butane-propane mix

Fluid Type: Mixture defined as mass percent
Fluid Name: butane-propane mix
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

butane

Fluid Type: Pure Newtonian Fluid
Fluid Name: butane
Alternative Names: []
Formula: C4H10
Critical Pressure: 3796000 Pa
Critical Temperature: 425,1 K
Molar Critical Volume: 255 cm3/mol
Melting Point: 134,8 K
Boiling Point: 272,66 K
Molecular Weight: 58,123
Acentric Factor: 0,2
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

butadiyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: butadiyne
Alternative Names: [biacetylene]
Formula: C4H2
Critical Pressure: 5863000 Pa
Critical Temperature: 478 K
Molar Critical Volume: 183,5 cm3/mol
Melting Point: 237,2 K
Boiling Point: 283,5 K
Molecular Weight: 50,06
Acentric Factor: 0,1
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

bromotrichloromethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: bromotrichloromethane
Alternative Names: [carbon bromotrichloride]
Formula: CBrCl3
Critical Pressure: 4970000 Pa
Critical Temperature: 606 K
Molar Critical Volume: 284 cm3/mol
Melting Point: 252,15 K
Boiling Point: 378,05 K
Molecular Weight: 198,273
Acentric Factor: 0,192
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

bromochlorodifluoromethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: bromochlorodifluoromethane
Alternative Names: [freon 121b, BCF]
Formula: CBrClF2
Critical Pressure: 4254000 Pa
Critical Temperature: 426,9 K
Molar Critical Volume: 246 cm3/mol
Melting Point: 113,7 K
Boiling Point: 269,4 K
Molecular Weight: 165,4
Acentric Factor: 0,183
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

bromobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: bromobenzene
Alternative Names: [phenyl bromide]
Formula: C6H5Br
Critical Pressure: 4520000 Pa
Critical Temperature: 670 K
Molar Critical Volume: 324 cm3/mol
Melting Point: 242 K
Boiling Point: 429,2 K
Molecular Weight: 157,01
Acentric Factor: 0,251
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

bromine

Fluid Type: Pure Newtonian Fluid
Fluid Name: bromine
Alternative Names: [bromo]
Formula: Br2
Critical Pressure: 10340000 Pa
Critical Temperature: 588 K
Molar Critical Volume: 131 cm3/mol
Melting Point: 265,9 K
Boiling Point: 331,9 K
Molecular Weight: 159,808
Acentric Factor: 0,109
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Antoine Equation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

Brine

Fluid Type: Pure Newtonian Fluid
Fluid Name: Brine
Alternative Names: []
Formula: N/A
Critical Pressure: 22088850 Pa
Critical Temperature: 647 K
Molar Critical Volume: 62,112 cm3/mol
Melting Point: 270 K
Boiling Point: 370 K
Molecular Weight: 20
Acentric Factor: 1
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Bondi Estimated from Gas Relation]
Liquid Thermal Conductivity Definition: [Latini]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

boron trichloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: boron trichloride
Alternative Names: []
Formula: BCl3
Critical Pressure: 3870000 Pa
Critical Temperature: 455 K
Molar Critical Volume: 239,5 cm3/mol
Melting Point: 165,9 K
Boiling Point: 285,8 K
Molecular Weight: 117,169
Acentric Factor: 0,14
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

boron trifluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: boron trifluoride
Alternative Names: []
Formula: BF3
Critical Pressure: 4980000 Pa
Critical Temperature: 260,8 K
Molar Critical Volume: 114,7 cm3/mol
Melting Point: 146,5 K
Boiling Point: 172 K
Molecular Weight: 67,8052
Acentric Factor: 0,393
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

boron tribromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: boron tribromide
Alternative Names: []
Formula: BBr3
Critical Pressure: 4930474,5 Pa
Critical Temperature: 581 K
Molar Critical Volume: 272 cm3/mol
Melting Point: 228,15 K
Boiling Point: 364,85 K
Molecular Weight: 250,523
Acentric Factor: 0,216
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

blast furnace gas

Fluid Type: Mixture defined as mass percent
Fluid Name: blast furnace gas
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

Bitumen

Fluid Type: Simple Newtonian Fluid
Fluid Name: Bitumen
Alternative Names: [Bitumen]
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

bisphenol a

Fluid Type: Pure Newtonian Fluid
Fluid Name: bisphenol a
Alternative Names: [4,4-(1-methylethylidene)bis-phenol, 4,4-isopropylidenedi-phenol]
Formula: C15H16O2
Critical Pressure: 2930000 Pa
Critical Temperature: 849 K
Molar Critical Volume: 677 cm3/mol
Melting Point: 426,15 K
Boiling Point: 633,65 K
Molecular Weight: 228,291
Acentric Factor: 0,945
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

bis(chloromethyl)ether

Fluid Type: Pure Newtonian Fluid
Fluid Name: bis(chloromethyl)ether
Alternative Names: []
Formula: C2H4Cl2O
Critical Pressure: 4580000 Pa
Critical Temperature: 579 K
Molar Critical Volume: 258 cm3/mol
Melting Point: 231,7 K
Boiling Point: 378 K
Molecular Weight: 114,959
Acentric Factor: 0,324
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

beta-propiolactone

Fluid Type: Pure Newtonian Fluid
Fluid Name: beta-propiolactone
Alternative Names: []
Formula: C3H4O2
Critical Pressure: 6910000 Pa
Critical Temperature: 686 K
Molar Critical Volume: 195 cm3/mol
Melting Point: 239,8 K
Boiling Point: 435,2 K
Molecular Weight: 72,064
Acentric Factor: 0,345
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzylamine
Alternative Names: []
Formula: C7H9N
Critical Pressure: 4320000 Pa
Critical Temperature: 683,5 K
Molar Critical Volume: 373 cm3/mol
Melting Point: 227,2 K
Boiling Point: 457,7 K
Molecular Weight: 107,155
Acentric Factor: 0,409
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzyl chloride
Alternative Names: []
Formula: C7H7Cl
Critical Pressure: 3910000 Pa
Critical Temperature: 686 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 234,2 K
Boiling Point: 452,6 K
Molecular Weight: 126,585
Acentric Factor: 0,314
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzyl dichloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzyl dichloride
Alternative Names: []
Formula: C7H6Cl2
Critical Pressure: 3550000 Pa
Critical Temperature: 731 K
Molar Critical Volume: 404 cm3/mol
Melting Point: 257 K
Boiling Point: 487 K
Molecular Weight: 161,03
Acentric Factor: 0,326
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzyl alcohol

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzyl alcohol
Alternative Names: [benzenemethanol, phenyl carbinol]
Formula: C7H8O
Critical Pressure: 4300000 Pa
Critical Temperature: 715 K
Molar Critical Volume: 334 cm3/mol
Melting Point: 257,8 K
Boiling Point: 478,46 K
Molecular Weight: 108,14
Acentric Factor: 0,39
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzoyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzoyl chloride
Alternative Names: []
Formula: C7H5ClO
Critical Pressure: 4060000 Pa
Critical Temperature: 697 K
Molar Critical Volume: 367 cm3/mol
Melting Point: 272,7 K
Boiling Point: 470,2 K
Molecular Weight: 140,569
Acentric Factor: 0,421
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzotrichloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzotrichloride
Alternative Names: []
Formula: C7H5Cl3
Critical Pressure: 3340000 Pa
Critical Temperature: 737 K
Molar Critical Volume: 447 cm3/mol
Melting Point: 268,4 K
Boiling Point: 486,7 K
Molecular Weight: 195,475
Acentric Factor: 0,26
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzotrifluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzotrifluoride
Alternative Names: []
Formula: C7H5F3
Critical Pressure: 3390000 Pa
Critical Temperature: 565 K
Molar Critical Volume: 356 cm3/mol
Melting Point: 244,1 K
Boiling Point: 375,2 K
Molecular Weight: 146,112
Acentric Factor: 0,282
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzothiophene

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzothiophene
Alternative Names: []
Formula: C8H6S
Critical Pressure: 4140000 Pa
Critical Temperature: 754 K
Molar Critical Volume: 349 cm3/mol
Melting Point: 304,5 K
Boiling Point: 493,1 K
Molecular Weight: 134,202
Acentric Factor: 0,296
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzonitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzonitrile
Alternative Names: []
Formula: C7H5NO
Critical Pressure: 4215000 Pa
Critical Temperature: 699,35 K
Molar Critical Volume: 339 cm3/mol
Melting Point: 260,4 K
Boiling Point: 464,2 K
Molecular Weight: 103,123
Acentric Factor: 0,352
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzoic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzoic acid
Alternative Names: []
Formula: C7H6O2
Critical Pressure: 4560000 Pa
Critical Temperature: 752 K
Molar Critical Volume: 341 cm3/mol
Melting Point: 395,6 K
Boiling Point: 523 K
Molecular Weight: 122,124
Acentric Factor: 0,62
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzene
Alternative Names: [benzol, cyclohexatriene]
Formula: C6H6
Critical Pressure: 4895000 Pa
Critical Temperature: 562,1 K
Molar Critical Volume: 256 cm3/mol
Melting Point: 278,7 K
Boiling Point: 353,24 K
Molecular Weight: 78,1134
Acentric Factor: 0,212
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

benzaldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: benzaldehyde
Alternative Names: []
Formula: C7H6O
Critical Pressure: 4650000 Pa
Critical Temperature: 695 K
Molar Critical Volume: 324 cm3/mol
Melting Point: 247,2 K
Boiling Point: 451,9 K
Molecular Weight: 106,124
Acentric Factor: 0,305
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

bauxite suspension 21.4%

Fluid Name: bauxite suspension 21.4%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Aviation Gasoline

Fluid Type: Simple Newtonian Fluid
Fluid Name: Aviation Gasoline
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Table]
Liquid Thermal Conductivity Definition: [Table]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

arsine

Fluid Type: Pure Newtonian Fluid
Fluid Name: arsine
Alternative Names: []
Formula: AsH3
Critical Pressure: 6413000 Pa
Critical Temperature: 373 K
Molar Critical Volume: 132,5 cm3/mol
Melting Point: 156,28 K
Boiling Point: 210,67 K
Molecular Weight: 77,945
Acentric Factor: 0,006
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

argon

Fluid Type: Pure Newtonian Fluid
Fluid Name: argon
Alternative Names: []
Formula: Ar
Critical Pressure: 4898000 Pa
Critical Temperature: 150,9 K
Molar Critical Volume: 74,57 cm3/mol
Melting Point: 83,8 K
Boiling Point: 87,27 K
Molecular Weight: 39,948
Acentric Factor: 0,001
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

Aqueous Clay Suspension V

Fluid Name: Aqueous Clay Suspension V
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Aqueous Clay Suspension III

Fluid Name: Aqueous Clay Suspension III
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Aqueous Clay Suspension I

Fluid Name: Aqueous Clay Suspension I
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Non Newtonian - Bingham Plastic]
Vapor Pressure Definition: [As Water]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

aniline

Fluid Type: Pure Newtonian Fluid
Fluid Name: aniline
Alternative Names: [aminobenzene]
Formula: C6H7N
Critical Pressure: 4890000 Pa
Critical Temperature: 699 K
Molar Critical Volume: 287 cm3/mol
Melting Point: 267,1 K
Boiling Point: 453,7 K
Molecular Weight: 93,128
Acentric Factor: 0,384
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Power Law]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

Ammoniumperoxidsulfat 12%

Fluid Type: Simple Newtonian Fluid
Fluid Name: Ammoniumperoxidsulfat 12%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Ammoniumfluoridätzmischung BHF 10-88-2

Fluid Type: Simple Newtonian Fluid
Fluid Name: Ammoniumfluoridätzmischung BHF 10-88-2
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Ammoniaklösung 29%

Fluid Type: Simple Newtonian Fluid
Fluid Name: Ammoniaklösung 29%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

Ammoniaklösung 2%

Fluid Type: Simple Newtonian Fluid
Fluid Name: Ammoniaklösung 2%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Fixed Value]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Fixed Value]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

ammonia water 30%

Fluid Type: Simple Newtonian Fluid
Fluid Name: ammonia water 30%
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

ammonia

Fluid Type: Pure Newtonian Fluid
Fluid Name: ammonia
Alternative Names: [nitrosil]
Formula: NH3
Critical Pressure: 11353000 Pa
Critical Temperature: 405,4 K
Molar Critical Volume: 72,42 cm3/mol
Melting Point: 195,4 K
Boiling Point: 239,82 K
Molecular Weight: 17,0304
Acentric Factor: 0,257
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Lucas]
Two-Phase Properties: [Data Provided]

aluminium tribromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: aluminium tribromide
Alternative Names: []
Formula: AlBr3
Critical Pressure: 2929000 Pa
Critical Temperature: 763 K
Molar Critical Volume: 310 cm3/mol
Melting Point: 370,7 K
Boiling Point: 528 K
Molecular Weight: 266,694
Acentric Factor: 0,399
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

alpha-methylstyrene

Fluid Type: Pure Newtonian Fluid
Fluid Name: alpha-methylstyrene
Alternative Names: [AMS, isopropenylbenzene]
Formula: C9H10
Critical Pressure: 3400000 Pa
Critical Temperature: 654 K
Molar Critical Volume: 397 cm3/mol
Melting Point: 250 K
Boiling Point: 438,6 K
Molecular Weight: 118,178
Acentric Factor: 0,3243
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

alpha-epichlorohydrin

Fluid Type: Pure Newtonian Fluid
Fluid Name: alpha-epichlorohydrin
Alternative Names: []
Formula: C3H5ClO
Critical Pressure: 4900000 Pa
Critical Temperature: 610 K
Molar Critical Volume: 233 cm3/mol
Melting Point: 216 K
Boiling Point: 389,3 K
Molecular Weight: 92,525
Acentric Factor: 0,256
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

allylamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: allylamine
Alternative Names: []
Formula: C3H7N
Critical Pressure: 5170000 Pa
Critical Temperature: 505 K
Molar Critical Volume: 247 cm3/mol
Melting Point: 185 K
Boiling Point: 326,5 K
Molecular Weight: 57,095
Acentric Factor: 0,327
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

allyl trichloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: allyl trichloride
Alternative Names: [1,2,3-trichloropropane]
Formula: C3H5Cl3
Critical Pressure: 3950000 Pa
Critical Temperature: 651 K
Molar Critical Volume: 348 cm3/mol
Melting Point: 258,5 K
Boiling Point: 429 K
Molecular Weight: 147,432
Acentric Factor: 0,31
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

allyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: allyl chloride
Alternative Names: [3-chloropropene]
Formula: C3H5Cl
Critical Pressure: 4760000 Pa
Critical Temperature: 514 K
Molar Critical Volume: 234 cm3/mol
Melting Point: 138,7 K
Boiling Point: 318,3 K
Molecular Weight: 76,526
Acentric Factor: 0,13
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

allyl cyanide

Fluid Type: Pure Newtonian Fluid
Fluid Name: allyl cyanide
Alternative Names: [vinylacetonitrile]
Formula: C4H5N
Critical Pressure: 3950000 Pa
Critical Temperature: 585 K
Molar Critical Volume: 265 cm3/mol
Melting Point: 186,7 K
Boiling Point: 392 K
Molecular Weight: 67,091
Acentric Factor: 0,39
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

allyl bromide

Fluid Type: Pure Newtonian Fluid
Fluid Name: allyl bromide
Alternative Names: [3-bromo-1-propene]
Formula: C3H5Br
Critical Pressure: 5140000 Pa
Critical Temperature: 540,2 K
Molar Critical Volume: 246,5 cm3/mol
Melting Point: 154 K
Boiling Point: 343,2 K
Molecular Weight: 120,977
Acentric Factor: 0,273
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

allyl alcohol

Fluid Type: Pure Newtonian Fluid
Fluid Name: allyl alcohol
Alternative Names: [vinylcarbinol]
Formula: C3H6O
Critical Pressure: 5310000 Pa
Critical Temperature: 545 K
Molar Critical Volume: 203,5 cm3/mol
Melting Point: 144 K
Boiling Point: 370,2 K
Molecular Weight: 58,079
Acentric Factor: 0,554
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Power Law]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

allyl acetate

Fluid Type: Pure Newtonian Fluid
Fluid Name: allyl acetate
Alternative Names: []
Formula: C5H8O2
Critical Pressure: 3680000 Pa
Critical Temperature: 559 K
Molar Critical Volume: 323 cm3/mol
Melting Point: 138 K
Boiling Point: 377,2 K
Molecular Weight: 100,117
Acentric Factor: 0,388
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

air [by mixture]

Fluid Type: Mixture defined as mass percent
Fluid Name: air [by mixture]
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

air

Fluid Type: Internally defined
Fluid Name: air
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Internal Relation for Air]
Liquid Specific Heat Definition: [Internal Relation for Air]
Liquid Thermal Conductivity Definition: [Internal Relation for Air]
Liquid Viscosity Definition: [Internal Relation for Air]
Vapor Pressure Definition: [Internal Relation for Air]
Gas Density Definition: [Internal Relation for Air]
Gas Specific Heat Definition: [Internal Relation for Air]
Gas Thermal Conductivity Definition: [Internal Relation for Air]
Gas Viscosity Definition: [Internal Relation for Air]
Two-Phase Properties: [Estimated]

adiponitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: adiponitrile
Alternative Names: []
Formula: C6H8N2
Critical Pressure: 2830000 Pa
Critical Temperature: 781 K
Molar Critical Volume: 406 cm3/mol
Melting Point: 275,6 K
Boiling Point: 568,2 K
Molecular Weight: 108,143
Acentric Factor: 0,672
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acrylonitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: acrylonitrile
Alternative Names: [cyanoethylene]
Formula: C3H3N
Critical Pressure: 4530000 Pa
Critical Temperature: 536 K
Molar Critical Volume: 210 cm3/mol
Melting Point: 189,5 K
Boiling Point: 350,5 K
Molecular Weight: 53,064
Acentric Factor: 0,35
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

acrylic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: acrylic acid
Alternative Names: [propenoic acid]
Formula: C3H4O2
Critical Pressure: 5670000 Pa
Critical Temperature: 615 K
Molar Critical Volume: 210 cm3/mol
Melting Point: 285 K
Boiling Point: 414 K
Molecular Weight: 72,064
Acentric Factor: 0,56
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Power Law]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Lucas]
Two-Phase Properties: [Data Provided]

acrylamide

Fluid Type: Pure Newtonian Fluid
Fluid Name: acrylamide
Alternative Names: [2-propenamide, ethylene carboxamide]
Formula: C3H5NO
Critical Pressure: 5730000 Pa
Critical Temperature: 710 K
Molar Critical Volume: 260 cm3/mol
Melting Point: 357,7 K
Boiling Point: 465,8 K
Molecular Weight: 71,0786
Acentric Factor: 0,195
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

acrolein

Fluid Type: Pure Newtonian Fluid
Fluid Name: acrolein
Alternative Names: [2-propenal, acrylic aldehyde]
Formula: C3H4O
Critical Pressure: 5160000 Pa
Critical Temperature: 506 K
Molar Critical Volume: 197 cm3/mol
Melting Point: 185,5 K
Boiling Point: 325,8 K
Molecular Weight: 56,064
Acentric Factor: 0,325
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

acetylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetylene
Alternative Names: [ethyne]
Formula: C2H2
Critical Pressure: 6114000 Pa
Critical Temperature: 308,3 K
Molar Critical Volume: 112,2 cm3/mol
Melting Point: 182,4 K
Boiling Point: 188,4 K
Molecular Weight: 26,038
Acentric Factor: 0,189
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acetylacetone

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetylacetone
Alternative Names: [acetoacetone]
Formula: C5H8O2
Critical Pressure: 3960000 Pa
Critical Temperature: 602 K
Molar Critical Volume: 323 cm3/mol
Melting Point: 249,7 K
Boiling Point: 413,6 K
Molecular Weight: 100,117
Acentric Factor: 0,496
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acetyl chloride

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetyl chloride
Alternative Names: [acetic chloride]
Formula: C2H3ClO
Critical Pressure: 5870000 Pa
Critical Temperature: 508 K
Molar Critical Volume: 204 cm3/mol
Melting Point: 160,2 K
Boiling Point: 323,9 K
Molecular Weight: 78,498
Acentric Factor: 0,344
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acetonitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetonitrile
Alternative Names: [methyl cyanide]
Formula: C2H3N
Critical Pressure: 4830000 Pa
Critical Temperature: 545,5 K
Molar Critical Volume: 173 cm3/mol
Melting Point: 229,3 K
Boiling Point: 354,8 K
Molecular Weight: 41,053
Acentric Factor: 0,327
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Power Law]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acetone cyanohydrin

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetone cyanohydrin
Alternative Names: []
Formula: C4H7NO
Critical Pressure: 4250000 Pa
Critical Temperature: 647 K
Molar Critical Volume: 296 cm3/mol
Melting Point: 253,2 K
Boiling Point: 463 K
Molecular Weight: 85,106
Acentric Factor: 0,733
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acetone

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetone
Alternative Names: []
Formula: C3H6O
Critical Pressure: 4702000 Pa
Critical Temperature: 508,1 K
Molar Critical Volume: 209 cm3/mol
Melting Point: 178,3 K
Boiling Point: 329,2 K
Molecular Weight: 58,0798
Acentric Factor: 0,304
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acetic anhydride

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetic anhydride
Alternative Names: []
Formula: C4H6O3
Critical Pressure: 4680000 Pa
Critical Temperature: 569 K
Molar Critical Volume: 290 cm3/mol
Melting Point: 199 K
Boiling Point: 413,2 K
Molecular Weight: 102,089
Acentric Factor: 0,908
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acetic acid solution 10%

Fluid Type: Mixture defined as mole percent
Fluid Name: acetic acid solution 10%
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

acetic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetic acid
Alternative Names: [ethanoic acid]
Formula: C2H4O2
Critical Pressure: 5786000 Pa
Critical Temperature: 592,7 K
Molar Critical Volume: 171 cm3/mol
Melting Point: 289,7 K
Boiling Point: 391 K
Molecular Weight: 60,0524
Acentric Factor: 0,447
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acetamide

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetamide
Alternative Names: []
Formula: C2H5NO
Critical Pressure: 6600000 Pa
Critical Temperature: 761 K
Molar Critical Volume: 215 cm3/mol
Melting Point: 354,2 K
Boiling Point: 494,3 K
Molecular Weight: 59,0676
Acentric Factor: 0,189
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

acetaldehyde

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetaldehyde
Alternative Names: []
Formula: C2H4O
Critical Pressure: 5570000 Pa
Critical Temperature: 461 K
Molar Critical Volume: 154 cm3/mol
Melting Point: 150,2 K
Boiling Point: 294 K
Molecular Weight: 44,054
Acentric Factor: 0,303
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Power Law]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

acetal

Fluid Type: Pure Newtonian Fluid
Fluid Name: acetal
Alternative Names: []
Formula: C6H14O2
Critical Pressure: 2980000 Pa
Critical Temperature: 541 K
Molar Critical Volume: 402 cm3/mol
Melting Point: 173,2 K
Boiling Point: 376,8 K
Molecular Weight: 118,176
Acentric Factor: 0,432
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

60 brix sugar liquor

Fluid Type: Simple Newtonian Fluid
Fluid Name: 60 brix sugar liquor
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

5-methylnonane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 5-methylnonane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2140000 Pa
Critical Temperature: 609,6 K
Molar Critical Volume: 573 cm3/mol
Melting Point: 185 K
Boiling Point: 483,3 K
Molecular Weight: 142,284
Acentric Factor: 0,452
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

5-methyl-2-hexanone

Fluid Type: Pure Newtonian Fluid
Fluid Name: 5-methyl-2-hexanone
Alternative Names: []
Formula: C7H14O
Critical Pressure: 2970000 Pa
Critical Temperature: 601 K
Molar Critical Volume: 421 cm3/mol
Melting Point: 199,3 K
Boiling Point: 418 K
Molecular Weight: 114,188
Acentric Factor: 0,434
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-propylheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-propylheptane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2180000 Pa
Critical Temperature: 601 K
Molar Critical Volume: 545 cm3/mol
Melting Point: 219 K
Boiling Point: 430,7 K
Molecular Weight: 142,284
Acentric Factor: 0,444
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-methyl-trans-2-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-methyl-trans-2-pentene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3040000 Pa
Critical Temperature: 493 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 132 K
Boiling Point: 331,7 K
Molecular Weight: 84,1608
Acentric Factor: 0,29
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-methylpyridine

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-methylpyridine
Alternative Names: [4-picoline]
Formula: C6H7N
Critical Pressure: 4661000 Pa
Critical Temperature: 646,15 K
Molar Critical Volume: 325,6 cm3/mol
Melting Point: 276,7 K
Boiling Point: 418,5 K
Molecular Weight: 93,128
Acentric Factor: 0,302
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-methyloctane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-methyloctane
Alternative Names: []
Formula: C9H20
Critical Pressure: 2330000 Pa
Critical Temperature: 586,7 K
Molar Critical Volume: 533,5 cm3/mol
Melting Point: 160 K
Boiling Point: 415,6 K
Molecular Weight: 128,257
Acentric Factor: 0,416
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-methylnonane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-methylnonane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2140000 Pa
Critical Temperature: 610,5 K
Molar Critical Volume: 575 cm3/mol
Melting Point: 174 K
Boiling Point: 438,9 K
Molecular Weight: 142,284
Acentric Factor: 0,451
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-methylheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-methylheptane
Alternative Names: []
Formula: C8H18
Critical Pressure: 2540000 Pa
Critical Temperature: 561,7 K
Molar Critical Volume: 476 cm3/mol
Melting Point: 152,2 K
Boiling Point: 390,9 K
Molecular Weight: 114,232
Acentric Factor: 0,371
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-methylcyclopentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-methylcyclopentene
Alternative Names: []
Formula: C6H10
Critical Pressure: 4016000 Pa
Critical Temperature: 543,75 K
Molar Critical Volume: 298,5 cm3/mol
Melting Point: 112,3 K
Boiling Point: 348,3 K
Molecular Weight: 82,145
Acentric Factor: 0,221
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-methyl-cis-2-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-methyl-cis-2-pentene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3040000 Pa
Critical Temperature: 490 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 139 K
Boiling Point: 329,6 K
Molecular Weight: 84,1608
Acentric Factor: 0,29
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-methyl-1-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-methyl-1-pentene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3290000 Pa
Critical Temperature: 494,8 K
Molar Critical Volume: 346,5 cm3/mol
Melting Point: 120 K
Boiling Point: 327 K
Molecular Weight: 84,1608
Acentric Factor: 0,262
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-methyl-1-hexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-methyl-1-hexene
Alternative Names: []
Formula: C7H14
Critical Pressure: 3040000 Pa
Critical Temperature: 534 K
Molar Critical Volume: 398 cm3/mol
Melting Point: 131,7 K
Boiling Point: 359,9 K
Molecular Weight: 98,188
Acentric Factor: 0,302
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-ethyloctane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-ethyloctane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2180000 Pa
Critical Temperature: 609,6 K
Molar Critical Volume: 552 cm3/mol
Melting Point: 185 K
Boiling Point: 436,8 K
Molecular Weight: 142,284
Acentric Factor: 0,443
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

4-ethylheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 4-ethylheptane
Alternative Names: []
Formula: C9H20
Critical Pressure: 2330000 Pa
Critical Temperature: 585 K
Molar Critical Volume: 533,5 cm3/mol
Melting Point: 160 K
Boiling Point: 414,4 K
Molecular Weight: 128,257
Acentric Factor: 0,416
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-pentanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-pentanol
Alternative Names: []
Formula: C5H12O
Critical Pressure: 3880000 Pa
Critical Temperature: 547 K
Molar Critical Volume: 327 cm3/mol
Melting Point: 204,2 K
Boiling Point: 388,5 K
Molecular Weight: 88,15
Acentric Factor: 0,675
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyl-trans-2-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl-trans-2-pentene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3290000 Pa
Critical Temperature: 521 K
Molar Critical Volume: 350 cm3/mol
Melting Point: 134,7 K
Boiling Point: 343,6 K
Molecular Weight: 84,1608
Acentric Factor: 0,207
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

3-methylthiophene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methylthiophene
Alternative Names: [3-thiotolene]
Formula: C5H6S
Critical Pressure: 4950000 Pa
Critical Temperature: 615 K
Molar Critical Volume: 275,5 cm3/mol
Melting Point: 204,2 K
Boiling Point: 388,6 K
Molecular Weight: 98,162
Acentric Factor: 0,242
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methylpyridine

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methylpyridine
Alternative Names: [3-picoline]
Formula: C6H7N
Critical Pressure: 4380000 Pa
Critical Temperature: 645 K
Molar Critical Volume: 320 cm3/mol
Melting Point: 255 K
Boiling Point: 417,3 K
Molecular Weight: 93,128
Acentric Factor: 0,271
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methylpentane
Alternative Names: []
Formula: C6H14
Critical Pressure: 3120000 Pa
Critical Temperature: 504,6 K
Molar Critical Volume: 31,2 cm3/mol
Melting Point: 110,2 K
Boiling Point: 336,42 K
Molecular Weight: 86,1766
Acentric Factor: 0,27
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyloctane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyloctane
Alternative Names: []
Formula: C9H20
Critical Pressure: 2340000 Pa
Critical Temperature: 590 K
Molar Critical Volume: 529 cm3/mol
Melting Point: 166 K
Boiling Point: 417,4 K
Molecular Weight: 128,257
Acentric Factor: 0,413
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methylnonane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methylnonane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2140000 Pa
Critical Temperature: 613,4 K
Molar Critical Volume: 582 cm3/mol
Melting Point: 188 K
Boiling Point: 441 K
Molecular Weight: 142,284
Acentric Factor: 0,451
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methylhexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methylhexane
Alternative Names: [2-ethylpentane, 3-methylhexane]
Formula: C7H16
Critical Pressure: 2810000 Pa
Critical Temperature: 535,3 K
Molar Critical Volume: 404 cm3/mol
Melting Point: 153,7 K
Boiling Point: 365 K
Molecular Weight: 100,203
Acentric Factor: 0,323
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methylheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methylheptane
Alternative Names: [2-ethylhexane]
Formula: C8H18
Critical Pressure: 2550000 Pa
Critical Temperature: 563,7 K
Molar Critical Volume: 464 cm3/mol
Melting Point: 152,7 K
Boiling Point: 392,1 K
Molecular Weight: 114,232
Acentric Factor: 0,37
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methylcyclopentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methylcyclopentene
Alternative Names: []
Formula: C6H10
Critical Pressure: 4016000 Pa
Critical Temperature: 535,71 K
Molar Critical Volume: 298,5 cm3/mol
Melting Point: 130,2 K
Boiling Point: 343,2 K
Molecular Weight: 82,145
Acentric Factor: 0,221
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyl-cis-2-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl-cis-2-pentene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3280000 Pa
Critical Temperature: 518 K
Molar Critical Volume: 351 cm3/mol
Melting Point: 138,3 K
Boiling Point: 340,9 K
Molecular Weight: 84,1608
Acentric Factor: 0,269
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyl-3-ethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl-3-ethylpentane
Alternative Names: []
Formula: C8H18
Critical Pressure: 2810000 Pa
Critical Temperature: 576,6 K
Molar Critical Volume: 455 cm3/mol
Melting Point: 182,3 K
Boiling Point: 391,4 K
Molecular Weight: 114,232
Acentric Factor: 0,303
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyl-1-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl-1-pentene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3290000 Pa
Critical Temperature: 495 K
Molar Critical Volume: 343,3 cm3/mol
Melting Point: 120,2 K
Boiling Point: 327,3 K
Molecular Weight: 84,161
Acentric Factor: 0,264
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyl-1-hexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl-1-hexene
Alternative Names: []
Formula: C7H14
Critical Pressure: 2950000 Pa
Critical Temperature: 528 K
Molar Critical Volume: 398 cm3/mol
Melting Point: 145 K
Boiling Point: 357,1 K
Molecular Weight: 98,188
Acentric Factor: 0,306
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyl-1-butyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl-1-butyne
Alternative Names: []
Formula: C5H8
Critical Pressure: 4200000 Pa
Critical Temperature: 463,2 K
Molar Critical Volume: 275 cm3/mol
Melting Point: 183,5 K
Boiling Point: 302,2 K
Molecular Weight: 68,118
Acentric Factor: 0,308
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyl-1-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl-1-butene
Alternative Names: [isopentene, isopropylenethylene, vinylisopropyl]
Formula: C5H10
Critical Pressure: 3516000 Pa
Critical Temperature: 450,37 K
Molar Critical Volume: 302,1 cm3/mol
Melting Point: 104,7 K
Boiling Point: 293,2 K
Molecular Weight: 70,134
Acentric Factor: 0,229
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyl-1-butanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl-1-butanol
Alternative Names: [isoamyl alcohol, isopentyl alcohol]
Formula: C5H12O
Critical Pressure: 3930000 Pa
Critical Temperature: 577,2 K
Molar Critical Volume: 327 cm3/mol
Melting Point: 155,9 K
Boiling Point: 404,2 K
Molecular Weight: 88,1492
Acentric Factor: 0,586
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

3-methyl-1,2-butadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl-1,2-butadiene
Alternative Names: [1,1-dimethylallene]
Formula: C5H8
Critical Pressure: 4110000 Pa
Critical Temperature: 496 K
Molar Critical Volume: 267 cm3/mol
Melting Point: 159,5 K
Boiling Point: 314 K
Molecular Weight: 68,1182
Acentric Factor: 0,16
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methyl sulfolane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methyl sulfolane
Alternative Names: []
Formula: C5H10O2S
Critical Pressure: 4240000 Pa
Critical Temperature: 817 K
Molar Critical Volume: 353 cm3/mol
Melting Point: 273,7 K
Boiling Point: 549,2 K
Molecular Weight: 134,199
Acentric Factor: 0,419
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-methohxypropionitrile

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-methohxypropionitrile
Alternative Names: []
Formula: C4H7NO
Critical Pressure: 3630000 Pa
Critical Temperature: 638 K
Molar Critical Volume: 324 cm3/mol
Melting Point: 210,1 K
Boiling Point: 439 K
Molecular Weight: 85,106
Acentric Factor: 0,465
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-mercaptopropionic acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-mercaptopropionic acid
Alternative Names: []
Formula: C3H6O2S
Critical Pressure: 5020000 Pa
Critical Temperature: 729 K
Molar Critical Volume: 281 cm3/mol
Melting Point: 290,7 K
Boiling Point: 501 K
Molecular Weight: 106,145
Acentric Factor: 0,587
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

3-iodo-1-propene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-iodo-1-propene
Alternative Names: []
Formula: C3H5I
Critical Pressure: 4529000 Pa
Critical Temperature: 595,8 K
Molar Critical Volume: 272,5 cm3/mol
Melting Point: 173,9 K
Boiling Point: 375,2 K
Molecular Weight: 167,977
Acentric Factor: 0,202
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-hexyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-hexyne
Alternative Names: []
Formula: C6H10
Critical Pressure: 3530000 Pa
Critical Temperature: 544 K
Molar Critical Volume: 331 cm3/mol
Melting Point: 170,1 K
Boiling Point: 354,4 K
Molecular Weight: 82,145
Acentric Factor: 0,218
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-hexanone

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-hexanone
Alternative Names: []
Formula: C6H12O
Critical Pressure: 3320000 Pa
Critical Temperature: 582,82 K
Molar Critical Volume: 364 cm3/mol
Melting Point: 217,5 K
Boiling Point: 396,7 K
Molecular Weight: 100,161
Acentric Factor: 0,376
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-ethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-ethylpentane
Alternative Names: []
Formula: C7H16
Critical Pressure: 2890000 Pa
Critical Temperature: 540,6 K
Molar Critical Volume: 416 cm3/mol
Melting Point: 154,5 K
Boiling Point: 366,6 K
Molecular Weight: 100,203
Acentric Factor: 0,31
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-ethyloctane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-ethyloctane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2190000 Pa
Critical Temperature: 613,6 K
Molar Critical Volume: 561 cm3/mol
Melting Point: 185 K
Boiling Point: 439,7 K
Molecular Weight: 142,284
Acentric Factor: 0,446
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-ethylheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-ethylheptane
Alternative Names: []
Formula: C9H20
Critical Pressure: 2330000 Pa
Critical Temperature: 587,5 K
Molar Critical Volume: 533,5 cm3/mol
Melting Point: 160 K
Boiling Point: 416,2 K
Molecular Weight: 128,257
Acentric Factor: 0,416
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-ethyl-2-methylhexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-ethyl-2-methylhexane
Alternative Names: [2-methyl-3ethylhexane]
Formula: C9H20
Critical Pressure: 2450000 Pa
Critical Temperature: 588,1 K
Molar Critical Volume: 497 cm3/mol
Melting Point: 160 K
Boiling Point: 411,2 K
Molecular Weight: 128,257
Acentric Factor: 0,378
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-ethyl-2,2,3-trimethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-ethyl-2,2,3-trimethylpentane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2570000 Pa
Critical Temperature: 646 K
Molar Critical Volume: 503 cm3/mol
Melting Point: 191 K
Boiling Point: 442,7 K
Molecular Weight: 142,284
Acentric Factor: 0,311
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-ethyl-1-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-ethyl-1-pentene
Alternative Names: []
Formula: C7H14
Critical Pressure: 3030000 Pa
Critical Temperature: 530 K
Molar Critical Volume: 398 cm3/mol
Melting Point: 145,7 K
Boiling Point: 357,3 K
Molecular Weight: 98,188
Acentric Factor: 0,302
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3-amino-1-propanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3-amino-1-propanol
Alternative Names: []
Formula: C3H9NO
Critical Pressure: 5500000 Pa
Critical Temperature: 649 K
Molar Critical Volume: 278 cm3/mol
Melting Point: 284,2 K
Boiling Point: 460,7 K
Molecular Weight: 75,111
Acentric Factor: 0,83
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

3,5-xylenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,5-xylenol
Alternative Names: []
Formula: C8H10O
Critical Pressure: 3648000 Pa
Critical Temperature: 715,65 K
Molar Critical Volume: 480 cm3/mol
Melting Point: 336,6 K
Boiling Point: 494,9 K
Molecular Weight: 122,167
Acentric Factor: 0,491
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3,4-xylenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,4-xylenol
Alternative Names: []
Formula: C8H10O
Critical Pressure: 5000000 Pa
Critical Temperature: 729,95 K
Molar Critical Volume: 350 cm3/mol
Melting Point: 338,3 K
Boiling Point: 500,2 K
Molecular Weight: 122,167
Acentric Factor: 0,573
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3,4-dichlorophenyl isocyanate

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,4-dichlorophenyl isocyanate
Alternative Names: []
Formula: C7H3Cl2NO
Critical Pressure: 3330000 Pa
Critical Temperature: 733 K
Molar Critical Volume: 456 cm3/mol
Melting Point: 316,2 K
Boiling Point: 501 K
Molecular Weight: 188,012
Acentric Factor: 0,335
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

3,4-dichloroaniline

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,4-dichloroaniline
Alternative Names: []
Formula: C6H5Cl2N
Critical Pressure: 4110000 Pa
Critical Temperature: 800 K
Molar Critical Volume: 409 cm3/mol
Melting Point: 344,7 K
Boiling Point: 545 K
Molecular Weight: 162,018
Acentric Factor: 0,468
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3,4-dichloro-1-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,4-dichloro-1-butene
Alternative Names: []
Formula: C4H6Cl2
Critical Pressure: 3850000 Pa
Critical Temperature: 589 K
Molar Critical Volume: 330 cm3/mol
Melting Point: 212 K
Boiling Point: 388 K
Molecular Weight: 124,997
Acentric Factor: 0,3
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]

3,3-dimethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,3-dimethylpentane
Alternative Names: []
Formula: C7H16
Critical Pressure: 2950000 Pa
Critical Temperature: 536,4 K
Molar Critical Volume: 414 cm3/mol
Melting Point: 138,2 K
Boiling Point: 359,21 K
Molecular Weight: 100,203
Acentric Factor: 0,267
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3,3-dimethylhexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,3-dimethylhexane
Alternative Names: []
Formula: C8H18
Critical Pressure: 2650000 Pa
Critical Temperature: 562 K
Molar Critical Volume: 443 cm3/mol
Melting Point: 147 K
Boiling Point: 385,1 K
Molecular Weight: 114,232
Acentric Factor: 0,32
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3,3-dimethyl-1-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,3-dimethyl-1-butene
Alternative Names: [neohexene, tert-butylethene]
Formula: C6H12
Critical Pressure: 3250000 Pa
Critical Temperature: 490 K
Molar Critical Volume: 340 cm3/mol
Melting Point: 158 K
Boiling Point: 314,4 K
Molecular Weight: 84,1608
Acentric Factor: 0,121
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3,3-diethylhexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,3-diethylhexane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2410000 Pa
Critical Temperature: 627,8 K
Molar Critical Volume: 510 cm3/mol
Melting Point: 219 K
Boiling Point: 439,5 K
Molecular Weight: 142,284
Acentric Factor: 0,377
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

3,3-diethyl-2-methylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 3,3-diethyl-2-methylpentane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2530000 Pa
Critical Temperature: 639,9 K
Molar Critical Volume: 501 cm3/mol
Melting Point: 191 K
Boiling Point: 442,9 K
Molecular Weight: 142,284
Acentric Factor: 0,346
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-pyrrolidone

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-pyrrolidone
Alternative Names: []
Formula: C4H7NO
Critical Pressure: 6170000 Pa
Critical Temperature: 792 K
Molar Critical Volume: 264 cm3/mol
Melting Point: 298,2 K
Boiling Point: 518,2 K
Molecular Weight: 85,106
Acentric Factor: 0,434
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-phenylethanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-phenylethanol
Alternative Names: []
Formula: C8H10O
Critical Pressure: 3920000 Pa
Critical Temperature: 684 K
Molar Critical Volume: 387 cm3/mol
Melting Point: 247 K
Boiling Point: 492,1 K
Molecular Weight: 122,167
Acentric Factor: 0,743
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-pentyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-pentyne
Alternative Names: []
Formula: C5H8
Critical Pressure: 4228000 Pa
Critical Temperature: 522 K
Molar Critical Volume: 277,5 cm3/mol
Melting Point: 163,9 K
Boiling Point: 329,2 K
Molecular Weight: 68,118
Acentric Factor: 0,186
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-pentylnaphthalene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-pentylnaphthalene
Alternative Names: []
Formula: C15H18
Critical Pressure: 2274000 Pa
Critical Temperature: 797,48 K
Molar Critical Volume: 689,5 cm3/mol
Melting Point: 269,16 K
Boiling Point: 583,16 K
Molecular Weight: 198,307
Acentric Factor: 0,575
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-pentanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-pentanol
Alternative Names: []
Formula: C5H12O
Critical Pressure: 3880000 Pa
Critical Temperature: 552 K
Molar Critical Volume: 327 cm3/mol
Melting Point: 200 K
Boiling Point: 392,2 K
Molecular Weight: 88,15
Acentric Factor: 0,675
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-nitropropane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-nitropropane
Alternative Names: [dimethylnitromethane, isonitropropane]
Formula: C3H7NO2
Critical Pressure: 4450000 Pa
Critical Temperature: 594 K
Molar Critical Volume: 288 cm3/mol
Melting Point: 181,8 K
Boiling Point: 393,4 K
Molecular Weight: 89,094
Acentric Factor: 0,376
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

2-nitrobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-nitrobutane
Alternative Names: []
Formula: C4H9NO2
Critical Pressure: 3600000 Pa
Critical Temperature: 615 K
Molar Critical Volume: 335,5 cm3/mol
Melting Point: 141,2 K
Boiling Point: 412,9 K
Molecular Weight: 103,121
Acentric Factor: 0,357
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2nd Carb Juice 15 brix

Fluid Type: Simple Newtonian Fluid
Fluid Name: 2nd Carb Juice 15 brix
Alternative Names: []
Formula: N/A
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Table]
Liquid Specific Heat Definition: [Fixed Value]
Liquid Thermal Conductivity Definition: [Fixed Value]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Table]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Undefined]
Gas Thermal Conductivity Definition: [Undefined]
Gas Viscosity Definition: [Undefined]
Two-Phase Properties: [Undefined]

2-methylthiophene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methylthiophene
Alternative Names: []
Formula: C5H6S
Critical Pressure: 4850000 Pa
Critical Temperature: 610 K
Molar Critical Volume: 275,5 cm3/mol
Melting Point: 209,8 K
Boiling Point: 385,7 K
Molecular Weight: 98,162
Acentric Factor: 0,238
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methylpyridine

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methylpyridine
Alternative Names: [2-picoline]
Formula: C6H7N
Critical Pressure: 4380000 Pa
Critical Temperature: 621 K
Molar Critical Volume: 320 cm3/mol
Melting Point: 206,44 K
Boiling Point: 402,55 K
Molecular Weight: 93,128
Acentric Factor: 0,278
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methylnonane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methylnonane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2100000 Pa
Critical Temperature: 610,3 K
Molar Critical Volume: 596 cm3/mol
Melting Point: 199 K
Boiling Point: 440,2 K
Molecular Weight: 142,284
Acentric Factor: 0,459
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methylnaphthalene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methylnaphthalene
Alternative Names: [beta=methylnapthelene]
Formula: C11H10
Critical Pressure: 3500000 Pa
Critical Temperature: 761 K
Molar Critical Volume: 462 cm3/mol
Melting Point: 307,7 K
Boiling Point: 514,3 K
Molecular Weight: 142,201
Acentric Factor: 0,382
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methylheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methylheptane
Alternative Names: [2-methylheptane]
Formula: C8H18
Critical Pressure: 2480000 Pa
Critical Temperature: 559,6 K
Molar Critical Volume: 488 cm3/mol
Melting Point: 164 K
Boiling Point: 390,8 K
Molecular Weight: 114,232
Acentric Factor: 0,378
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methyl-3-ethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl-3-ethylpentane
Alternative Names: []
Formula: C8H18
Critical Pressure: 2700000 Pa
Critical Temperature: 567,1 K
Molar Critical Volume: 443 cm3/mol
Melting Point: 158,2 K
Boiling Point: 388,8 K
Molecular Weight: 114,232
Acentric Factor: 0,33
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

2-methyl-2-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl-2-pentene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3280000 Pa
Critical Temperature: 518 K
Molar Critical Volume: 351 cm3/mol
Melting Point: 138,1 K
Boiling Point: 340,5 K
Molecular Weight: 84,1608
Acentric Factor: 0,229
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methyl-2-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl-2-butene
Alternative Names: [amylene]
Formula: C5H10
Critical Pressure: 3420000 Pa
Critical Temperature: 470 K
Molar Critical Volume: 292 cm3/mol
Melting Point: 139,4 K
Boiling Point: 311,7 K
Molecular Weight: 70,134
Acentric Factor: 0,24
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methyl-2-butanethiol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl-2-butanethiol
Alternative Names: []
Formula: C5H12S
Critical Pressure: 3270000 Pa
Critical Temperature: 566 K
Molar Critical Volume: 358,5 cm3/mol
Melting Point: 169,4 K
Boiling Point: 372,3 K
Molecular Weight: 104,21
Acentric Factor: 0,243
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methyl-1-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl-1-pentene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3160000 Pa
Critical Temperature: 507 K
Molar Critical Volume: 359 cm3/mol
Melting Point: 137,4 K
Boiling Point: 335,3 K
Molecular Weight: 84,161
Acentric Factor: 0,241
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methyl-1-hexene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl-1-hexene
Alternative Names: []
Formula: C7H14
Critical Pressure: 2870000 Pa
Critical Temperature: 538 K
Molar Critical Volume: 398 cm3/mol
Melting Point: 170,3 K
Boiling Point: 365 K
Molecular Weight: 98,188
Acentric Factor: 0,309
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methyl-1-butene-3-yne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl-1-butene-3-yne
Alternative Names: []
Formula: C5H6
Critical Pressure: 4380000 Pa
Critical Temperature: 492 K
Molar Critical Volume: 248 cm3/mol
Melting Point: 160,2 K
Boiling Point: 305,4 K
Molecular Weight: 66,103
Acentric Factor: 0,137
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methyl-1-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl-1-butene
Alternative Names: [isopropylethylene, vinylisopropyl, isopentene]
Formula: C5H10
Critical Pressure: 3530000 Pa
Critical Temperature: 452,7 K
Molar Critical Volume: 304,9 cm3/mol
Melting Point: 104,7 K
Boiling Point: 293,3 K
Molecular Weight: 70,134
Acentric Factor: 0,209
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methyl-1-butanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl-1-butanol
Alternative Names: [2-methylbutylalcohol]
Formula: C5H120
Critical Pressure: 3940000 Pa
Critical Temperature: 575,4 K
Molar Critical Volume: 327 cm3/mol
Melting Point: 203 K
Boiling Point: 401,2 K
Molecular Weight: 88,1492
Acentric Factor: 0,678
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

2-methyl octane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methyl octane
Alternative Names: []
Formula: C9H20
Critical Pressure: 2310000 Pa
Critical Temperature: 582,8 K
Molar Critical Volume: 533,5 cm3/mol
Melting Point: 192,8 K
Boiling Point: 416,43 K
Molecular Weight: 128,257
Acentric Factor: 0,423
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-methoxyethanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methoxyethanol
Alternative Names: [ethylene glycol monomethyl ether]
Formula: C3H8O2
Critical Pressure: 5010000 Pa
Critical Temperature: 564 K
Molar Critical Volume: 242 cm3/mol
Melting Point: 188 K
Boiling Point: 397,6 K
Molecular Weight: 76,095
Acentric Factor: 0,731
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

2-methacrylamide

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-methacrylamide
Alternative Names: []
Formula: C4H7NO
Critical Pressure: 5450000 Pa
Critical Temperature: 741 K
Molar Critical Volume: 298 cm3/mol
Melting Point: 383,7 K
Boiling Point: 488 K
Molecular Weight: 85,106
Acentric Factor: 0,421
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-iodo-2-methylpropane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-iodo-2-methylpropane
Alternative Names: []
Formula: C4H9I
Critical Pressure: 3882000 Pa
Critical Temperature: 587,9 K
Molar Critical Volume: 336,5 cm3/mol
Melting Point: 235 K
Boiling Point: 373,2 K
Molecular Weight: 184,02
Acentric Factor: 0,179
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-chloroprene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-chloroprene
Alternative Names: []
Formula: C3H5Cl
Critical Pressure: 4710000 Pa
Critical Temperature: 478 K
Molar Critical Volume: 234 cm3/mol
Melting Point: 135,8 K
Boiling Point: 295,8 K
Molecular Weight: 76,525
Acentric Factor: 0,153
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

2-chloroethanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-chloroethanol
Alternative Names: []
Formula: C2H5ClO
Critical Pressure: 5920000 Pa
Critical Temperature: 585 K
Molar Critical Volume: 212 cm3/mol
Melting Point: 205,7 K
Boiling Point: 401,8 K
Molecular Weight: 80,514
Acentric Factor: 0,637
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-chloro-2methylbutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-chloro-2methylbutane
Alternative Names: []
Formula: C5H11Cl
Critical Pressure: 3396000 Pa
Critical Temperature: 548,97 K
Molar Critical Volume: 353,5 cm3/mol
Melting Point: 199,7 K
Boiling Point: 358,8 K
Molecular Weight: 106,595
Acentric Factor: 0,233
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-hydroxyethyl acrylate

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-hydroxyethyl acrylate
Alternative Names: [ethylene glycol monoacrylate]
Formula: C5H8O3
Critical Pressure: 3980000 Pa
Critical Temperature: 662 K
Molar Critical Volume: 359 cm3/mol
Melting Point: 213 K
Boiling Point: 484 K
Molecular Weight: 116,117
Acentric Factor: 0,864
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-hexyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-hexyne
Alternative Names: []
Formula: C6H10
Critical Pressure: 3530000 Pa
Critical Temperature: 549 K
Molar Critical Volume: 331 cm3/mol
Melting Point: 183,7 K
Boiling Point: 357,7 K
Molecular Weight: 82,145
Acentric Factor: 0,221
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-hexanone

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-hexanone
Alternative Names: []
Formula: C6H120
Critical Pressure: 3324000 Pa
Critical Temperature: 587,05 K
Molar Critical Volume: 369 cm3/mol
Melting Point: 217,4 K
Boiling Point: 400,9 K
Molecular Weight: 100,161
Acentric Factor: 0,397
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-hexanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-hexanol
Alternative Names: []
Formula: C6H14O
Critical Pressure: 3400000 Pa
Critical Temperature: 586,2 K
Molar Critical Volume: 380 cm3/mol
Melting Point: 223 K
Boiling Point: 413 K
Molecular Weight: 102,177
Acentric Factor: 0,566
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-heptanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-heptanol
Alternative Names: []
Formula: C7H16O
Critical Pressure: 3030000 Pa
Critical Temperature: 538 K
Molar Critical Volume: 432 cm3/mol
Melting Point: 243 K
Boiling Point: 432,4 K
Molecular Weight: 116,203
Acentric Factor: 0,763
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-ethyl-1-pentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-ethyl-1-pentene
Alternative Names: []
Formula: C7H14
Critical Pressure: 2950000 Pa
Critical Temperature: 543 K
Molar Critical Volume: 398 cm3/mol
Melting Point: 168 K
Boiling Point: 367,2 K
Molecular Weight: 98,188
Acentric Factor: 0,309
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-ethyl-1-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-ethyl-1-butene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3160000 Pa
Critical Temperature: 512 K
Molar Critical Volume: 364 cm3/mol
Melting Point: 141,2 K
Boiling Point: 337,8 K
Molecular Weight: 84,161
Acentric Factor: 0,228
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-ethyl-1-butanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-ethyl-1-butanol
Alternative Names: []
Formula: C6H14O
Critical Pressure: 3400000 Pa
Critical Temperature: 580 K
Molar Critical Volume: 380 cm3/mol
Melting Point: 158,8 K
Boiling Point: 419,7 K
Molecular Weight: 102,177
Acentric Factor: 0,714
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2-ethyl butyric acid

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2-ethyl butyric acid
Alternative Names: []
Formula: C6H12O2
Critical Pressure: 3410000 Pa
Critical Temperature: 655 K
Molar Critical Volume: 389 cm3/mol
Melting Point: 258,2 K
Boiling Point: 467 K
Molecular Weight: 116,16
Acentric Factor: 0,633
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,6-xylenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,6-xylenol
Alternative Names: []
Formula: C8H10O
Critical Pressure: 4300000 Pa
Critical Temperature: 701,05 K
Molar Critical Volume: 390 cm3/mol
Melting Point: 318,8 K
Boiling Point: 474,2 K
Molecular Weight: 122,167
Acentric Factor: 0,455
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,6-di-tert-butyl-p-cresol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,6-di-tert-butyl-p-cresol
Alternative Names: [2,6-di-tert-butyl-4-methylphenol, butylated hydroxytoluene]
Formula: C15H24O
Critical Pressure: 2110000 Pa
Critical Temperature: 720 K
Molar Critical Volume: 757 cm3/mol
Melting Point: 344 K
Boiling Point: 538 K
Molecular Weight: 220,355
Acentric Factor: 0,686
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,6-dimethylpyridine

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,6-dimethylpyridine
Alternative Names: []
Formula: C7H9N
Critical Pressure: 3780000 Pa
Critical Temperature: 623,75 K
Molar Critical Volume: 316 cm3/mol
Melting Point: 267 K
Boiling Point: 417,2 K
Molecular Weight: 107,155
Acentric Factor: 0,35
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,5-xylenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,5-xylenol
Alternative Names: []
Formula: C8H10O
Critical Pressure: 4900000 Pa
Critical Temperature: 707,05 K
Molar Critical Volume: 350 cm3/mol
Melting Point: 348 K
Boiling Point: 484,3 K
Molecular Weight: 122,167
Acentric Factor: 0,563
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,5-dimethylhexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,5-dimethylhexane
Alternative Names: [biisobutyl]
Formula: C8H18
Critical Pressure: 2490000 Pa
Critical Temperature: 550,1 K
Molar Critical Volume: 482 cm3/mol
Melting Point: 181,9 K
Boiling Point: 382,3 K
Molecular Weight: 114,232
Acentric Factor: 0,356
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,4-xylenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,4-xylenol
Alternative Names: []
Formula: C8H10O
Critical Pressure: 4400000 Pa
Critical Temperature: 707,65 K
Molar Critical Volume: 390 cm3/mol
Melting Point: 297,7 K
Boiling Point: 484,3 K
Molecular Weight: 122,167
Acentric Factor: 0,513
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,4-dinitrotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,4-dinitrotoluene
Alternative Names: []
Formula: C7H6N2O4
Critical Pressure: 3400000 Pa
Critical Temperature: 814 K
Molar Critical Volume: 487 cm3/mol
Melting Point: 343 K
Boiling Point: 590 K
Molecular Weight: 182,136
Acentric Factor: -0,718
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,4-dimethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,4-dimethylpentane
Alternative Names: []
Formula: C7H16
Critical Pressure: 2740000 Pa
Critical Temperature: 519,8 K
Molar Critical Volume: 418 cm3/mol
Melting Point: 153,2 K
Boiling Point: 353,64 K
Molecular Weight: 100,203
Acentric Factor: 0,302
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,4-dimethyl-3-isopropylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,4-dimethyl-3-isopropylpentane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2340000 Pa
Critical Temperature: 614,4 K
Molar Critical Volume: 521 cm3/mol
Melting Point: 191 K
Boiling Point: 430,2 K
Molecular Weight: 142,284
Acentric Factor: 0,365
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,4-dichlorotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,4-dichlorotoluene
Alternative Names: []
Formula: C7H6Cl2
Critical Pressure: 3590000 Pa
Critical Temperature: 705 K
Molar Critical Volume: 404 cm3/mol
Melting Point: 259,7 K
Boiling Point: 474,3 K
Molecular Weight: 161,03
Acentric Factor: 0,359
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,4-dichlorobenzotrifluoride

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,4-dichlorobenzotrifluoride
Alternative Names: []
Formula: C7H3ClF3
Critical Pressure: 2810000 Pa
Critical Temperature: 646 K
Molar Critical Volume: 443 cm3/mol
Melting Point: 247,6 K
Boiling Point: 450,7 K
Molecular Weight: 215,001
Acentric Factor: 0,434
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,4,6-trinitrotoluene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,4,6-trinitrotoluene
Alternative Names: []
Formula: C7H5N3O6
Critical Pressure: 3040000 Pa
Critical Temperature: 795 K
Molar Critical Volume: 480 cm3/mol
Melting Point: 354 K
Boiling Point: 573 K
Molecular Weight: 227,133
Acentric Factor: 1,977
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,4,6-trimethylpyridine

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,4,6-trimethylpyridine
Alternative Names: [2,4,6-collidine, s-collidine]
Formula: C8H11N
Critical Pressure: 3374122,5 Pa
Critical Temperature: 653 K
Molar Critical Volume: 417 cm3/mol
Melting Point: 229 K
Boiling Point: 444 K
Molecular Weight: 121,182
Acentric Factor: 0,376
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3-xylenol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-xylenol
Alternative Names: []
Formula: C8H10O
Critical Pressure: 4900000 Pa
Critical Temperature: 722,95 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 345,7 K
Boiling Point: 490,1 K
Molecular Weight: 122,167
Acentric Factor: 0,511
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3-pentadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-pentadiene
Alternative Names: []
Formula: C5H8
Critical Pressure: 3800000 Pa
Critical Temperature: 497 K
Molar Critical Volume: 295 cm3/mol
Melting Point: 147,5 K
Boiling Point: 321,4 K
Molecular Weight: 68,118
Acentric Factor: 0,218
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3-dimethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-dimethylpentane
Alternative Names: [3,4-dimethylpentane]
Formula: C7H16
Critical Pressure: 2910000 Pa
Critical Temperature: 537,3 K
Molar Critical Volume: 393 cm3/mol
Melting Point: 150 K
Boiling Point: 362,9 K
Molecular Weight: 100,203
Acentric Factor: 0,296
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3-dimethyl-2-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-dimethyl-2-butene
Alternative Names: [1,1,2,2-tetrametylethylene]
Formula: C6H12
Critical Pressure: 3360000 Pa
Critical Temperature: 524 K
Molar Critical Volume: 351 cm3/mol
Melting Point: 198,9 K
Boiling Point: 346,4 K
Molecular Weight: 84,1608
Acentric Factor: 0,239
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3-dimethyl-2-3-diphenylbutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-dimethyl-2-3-diphenylbutane
Alternative Names: [1,2-diphenyltetramethylethane, dicumene]
Formula: C18H22
Critical Pressure: 1990000 Pa
Critical Temperature: 805 K
Molar Critical Volume: 781 cm3/mol
Melting Point: 392,15 K
Boiling Point: 589 K
Molecular Weight: 238,373
Acentric Factor: 0,521
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3-dimethyl-1-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-dimethyl-1-butene
Alternative Names: []
Formula: C6H12
Critical Pressure: 3240000 Pa
Critical Temperature: 501 K
Molar Critical Volume: 343 cm3/mol
Melting Point: 115,9 K
Boiling Point: 328,8 K
Molecular Weight: 84,1608
Acentric Factor: 0,221
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3-dimethyl-1,3-butadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-dimethyl-1,3-butadiene
Alternative Names: []
Formula: C6H10
Critical Pressure: 3520000 Pa
Critical Temperature: 526 K
Molar Critical Volume: 315 cm3/mol
Melting Point: 197,2 K
Boiling Point: 342 K
Molecular Weight: 82,145
Acentric Factor: 0,214
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3-dichloropropene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-dichloropropene
Alternative Names: []
Formula: C3H4Cl2
Critical Pressure: 4380000 Pa
Critical Temperature: 577 K
Molar Critical Volume: 277 cm3/mol
Melting Point: 191,5 K
Boiling Point: 365,7 K
Molecular Weight: 110,97
Acentric Factor: 0,206
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

2,3-dibromobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-dibromobutane
Alternative Names: []
Formula: C4H8Br2
Critical Pressure: 4769000 Pa
Critical Temperature: 657 K
Molar Critical Volume: 371,5 cm3/mol
Melting Point: 238,7 K
Boiling Point: 432,2 K
Molecular Weight: 215,915
Acentric Factor: 0,397
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3-butanediol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3-butanediol
Alternative Names: [dimethylethylene glycol]
Formula: C4H10O2
Critical Pressure: 5130000 Pa
Critical Temperature: 611 K
Molar Critical Volume: 267 cm3/mol
Melting Point: 280,75 K
Boiling Point: 453,85 K
Molecular Weight: 90,122
Acentric Factor: 1,106
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3,4-trimethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3,4-trimethylpentane
Alternative Names: []
Formula: C8H18
Critical Pressure: 2730000 Pa
Critical Temperature: 566,4 K
Molar Critical Volume: 461 cm3/mol
Melting Point: 163,9 K
Boiling Point: 386,6 K
Molecular Weight: 114,232
Acentric Factor: 0,315
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3,3-trimethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3,3-trimethylpentane
Alternative Names: []
Formula: C8H18
Critical Pressure: 2820000 Pa
Critical Temperature: 573,6 K
Molar Critical Volume: 455 cm3/mol
Melting Point: 172,5 K
Boiling Point: 387,9 K
Molecular Weight: 114,232
Acentric Factor: 0,29
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,3,3,-trimethyl-1-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,3,3,-trimethyl-1-butene
Alternative Names: []
Formula: C7H14
Critical Pressure: 3140000 Pa
Critical Temperature: 531 K
Molar Critical Volume: 381 cm3/mol
Melting Point: 163,3 K
Boiling Point: 351 K
Molecular Weight: 98,188
Acentric Factor: 0,241
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2-dimethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2-dimethylpentane
Alternative Names: []
Formula: C7H16
Critical Pressure: 2770000 Pa
Critical Temperature: 520,5 K
Molar Critical Volume: 416 cm3/mol
Melting Point: 149,3 K
Boiling Point: 352,3 K
Molecular Weight: 100,203
Acentric Factor: 0,287
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2-dimethyloctane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2-dimethyloctane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2130000 Pa
Critical Temperature: 602 K
Molar Critical Volume: 580 cm3/mol
Melting Point: 219 K
Boiling Point: 430,1 K
Molecular Weight: 142,284
Acentric Factor: 0,417
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2-dimethylhexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2-dimethylhexane
Alternative Names: []
Formula: C8H18
Critical Pressure: 2530000 Pa
Critical Temperature: 549,9 K
Molar Critical Volume: 478 cm3/mol
Melting Point: 152 K
Boiling Point: 380 K
Molecular Weight: 114,232
Acentric Factor: 0,338
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2-dimethylheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2-dimethylheptane
Alternative Names: []
Formula: C9H20
Critical Pressure: 2350000 Pa
Critical Temperature: 576,7 K
Molar Critical Volume: 528,5 cm3/mol
Melting Point: 160 K
Boiling Point: 405,8 K
Molecular Weight: 128,257
Acentric Factor: 0,39
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2-dimethylbutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2-dimethylbutane
Alternative Names: [biisopropyl]
Formula: C6H14
Critical Pressure: 3150000 Pa
Critical Temperature: 500 K
Molar Critical Volume: 361 cm3/mol
Melting Point: 144,3 K
Boiling Point: 331,1 K
Molecular Weight: 86,1766
Acentric Factor: 0,247
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2-dichloropropane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2-dichloropropane
Alternative Names: [dimethyldichloromethane]
Formula: C3H6Cl2
Critical Pressure: 4104000 Pa
Critical Temperature: 539,4 K
Molar Critical Volume: 290,5 cm3/mol
Melting Point: 239 K
Boiling Point: 342,5 K
Molecular Weight: 112,986
Acentric Factor: 0,198
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2,5-trimethylhexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2,5-trimethylhexane
Alternative Names: []
Formula: C9H20
Critical Pressure: 2330000 Pa
Critical Temperature: 568 K
Molar Critical Volume: 519 cm3/mol
Melting Point: 167,4 K
Boiling Point: 397,3 K
Molecular Weight: 128,259
Acentric Factor: 0,357
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2,4,4-tetramethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2,4,4-tetramethylpentane
Alternative Names: [di-tert-butylmethane]
Formula: C9H20
Critical Pressure: 2490000 Pa
Critical Temperature: 574,6 K
Molar Critical Volume: 504 cm3/mol
Melting Point: 206,6 K
Boiling Point: 395,4 K
Molecular Weight: 128,257
Acentric Factor: 0,312
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2,3-trimethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2,3-trimethylpentane
Alternative Names: []
Formula: C8H18
Critical Pressure: 2730000 Pa
Critical Temperature: 563,5 K
Molar Critical Volume: 436 cm3/mol
Melting Point: 160,9 K
Boiling Point: 383 K
Molecular Weight: 114,232
Acentric Factor: 0,297
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2,3-trimethylhexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2,3-trimethylhexane
Alternative Names: []
Formula: C9H20
Critical Pressure: 2490000 Pa
Critical Temperature: 588 K
Molar Critical Volume: 498,9 cm3/mol
Melting Point: 153 K
Boiling Point: 406,8 K
Molecular Weight: 128,257
Acentric Factor: 0,332
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2,3,3,4-pentamethylpentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2,3,3,4-pentamethylpentane
Alternative Names: []
Formula: C10H22
Critical Pressure: 2580000 Pa
Critical Temperature: 643,8 K
Molar Critical Volume: 508 cm3/mol
Melting Point: 237 K
Boiling Point: 439,2 K
Molecular Weight: 142,284
Acentric Factor: 0,294
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

2,2 dimethyl-1-propanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 2,2 dimethyl-1-propanol
Alternative Names: []
Formula: C5H12O
Critical Pressure: 3880000 Pa
Critical Temperature: 550 K
Molar Critical Volume: 327 cm3/mol
Melting Point: 327,2 K
Boiling Point: 386,3 K
Molecular Weight: 88,15
Acentric Factor: 0,604
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-tetradecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-tetradecene
Alternative Names: [n-tetradec-1-ene]
Formula: C14H28
Critical Pressure: 1660000 Pa
Critical Temperature: 692 K
Molar Critical Volume: 817 cm3/mol
Melting Point: 260,3 K
Boiling Point: 524,25 K
Molecular Weight: 196,376
Acentric Factor: 0,648
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-tetradecanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-tetradecanol
Alternative Names: [myristyl alcohol, tetradecyl alcohol]
Formula: C14H30O
Critical Pressure: 1700000 Pa
Critical Temperature: 741 K
Molar Critical Volume: 802 cm3/mol
Melting Point: 310,65 K
Boiling Point: 560,15 K
Molecular Weight: 214,392
Acentric Factor: 0,677
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-tetradecanethiol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-tetradecanethiol
Alternative Names: [myristyl mercaptan, n-tetradecyl mercaptan, tetradecanethiol]
Formula: C14H30S
Critical Pressure: 1603000 Pa
Critical Temperature: 753,8 K
Molar Critical Volume: 873,5 cm3/mol
Melting Point: 279,26 K
Boiling Point: 579,36 K
Molecular Weight: 230,451
Acentric Factor: 0,707
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-phenyltetradecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-phenyltetradecane
Alternative Names: [myristylbenzene, tetradecylbenzene]
Formula: C20H34
Critical Pressure: 1419000 Pa
Critical Temperature: 792 K
Molar Critical Volume: 1100 cm3/mol
Melting Point: 289,16 K
Boiling Point: 627,16 K
Molecular Weight: 274,489
Acentric Factor: 0,869
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-phenylpentadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-phenylpentadecane
Alternative Names: [1-phenyl-pentadecan, benzene,pentadecyl, Pentadecane]
Formula: C21H36
Critical Pressure: 1348000 Pa
Critical Temperature: 800 K
Molar Critical Volume: 1140 cm3/mol
Melting Point: 295,16 K
Boiling Point: 639,16 K
Molecular Weight: 288,515
Acentric Factor: 0,914
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-phenylnaphthalene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-phenylnaphthalene
Alternative Names: [1-phenyl-naphthalene]
Formula: C16H12
Critical Pressure: 2630000 Pa
Critical Temperature: 849 K
Molar Critical Volume: 656 cm3/mol
Melting Point: 318,15 K
Boiling Point: 607,15 K
Molecular Weight: 204,271
Acentric Factor: 0,531
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-phenylhexadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-phenylhexadecane
Alternative Names: [Hexadecylbenzene]
Formula: C22H38
Critical Pressure: 1287000 Pa
Critical Temperature: 808 K
Molar Critical Volume: 1200 cm3/mol
Melting Point: 300,16 K
Boiling Point: 651,16 K
Molecular Weight: 302,542
Acentric Factor: 0,964
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-pentylnaphthalene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-pentylnaphthalene
Alternative Names: []
Formula: C15H18
Critical Pressure: 2274000 Pa
Critical Temperature: 793,32 K
Molar Critical Volume: 689,5 cm3/mol
Melting Point: 251,16 K
Boiling Point: 580,16 K
Molecular Weight: 198,307
Acentric Factor: 0,575
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-pentadecyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-pentadecyne
Alternative Names: []
Formula: C15H28
Critical Pressure: 1587000 Pa
Critical Temperature: 711,41 K
Molar Critical Volume: 837,5 cm3/mol
Melting Point: 283,16 K
Boiling Point: 541,16 K
Molecular Weight: 208,386
Acentric Factor: 0,628
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-pentadecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-pentadecene
Alternative Names: [pentadec-1-ene, pentadecene]
Formula: C15H30
Critical Pressure: 1570000 Pa
Critical Temperature: 708 K
Molar Critical Volume: 875 cm3/mol
Melting Point: 269,42 K
Boiling Point: 541,61 K
Molecular Weight: 210,403
Acentric Factor: 0,684
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-pentadecanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-pentadecanol
Alternative Names: [n-pentadecyl alcohol, pentadecanol, pentadecyl alcohol]
Formula: C15H32O
Critical Pressure: 1519000 Pa
Critical Temperature: 722,53 K
Molar Critical Volume: 894,5 cm3/mol
Melting Point: 317,04 K
Boiling Point: 578,01 K
Molecular Weight: 228,417
Acentric Factor: 1,015
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-pentadecanethiol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-pentadecanethiol
Alternative Names: []
Formula: C15H32S
Critical Pressure: 1486000 Pa
Critical Temperature: 764,77 K
Molar Critical Volume: 929,25 cm3/mol
Melting Point: 290,93 K
Boiling Point: 593,86 K
Molecular Weight: 244,178
Acentric Factor: 0,737
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-octadecyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-octadecyne
Alternative Names: [hexadecylacetylene]
Formula: C18H34
Critical Pressure: 1277000 Pa
Critical Temperature: 747,33 K
Molar Critical Volume: 1005,5 cm3/mol
Melting Point: 300,16 K
Boiling Point: 586,16 K
Molecular Weight: 250,467
Acentric Factor: 0,715
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-octadecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-octadecene
Alternative Names: []
Formula: C18H36
Critical Pressure: 1340000 Pa
Critical Temperature: 748 K
Molar Critical Volume: 1050 cm3/mol
Melting Point: 290,76 K
Boiling Point: 587,97 K
Molecular Weight: 252,484
Acentric Factor: 0,79
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-nonadecyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-nonadecyne
Alternative Names: []
Formula: C19H36
Critical Pressure: 1194000 Pa
Critical Temperature: 758,94 K
Molar Critical Volume: 1061,5 cm3/mol
Melting Point: 306,16 K
Boiling Point: 600,16 K
Molecular Weight: 264,493
Acentric Factor: 0,735
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-nonadecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-nonadecene
Alternative Names: [nonadec-1-ene]
Formula: C19H38
Critical Pressure: 1280000 Pa
Critical Temperature: 760 K
Molar Critical Volume: 1100 cm3/mol
Melting Point: 296,55 K
Boiling Point: 602,17 K
Molecular Weight: 266,511
Acentric Factor: 0,841
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-nonadecanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-nonadecanol
Alternative Names: [alcohol c19, nonadecanol]
Formula: C19H40O
Critical Pressure: 1149000 Pa
Critical Temperature: 775,3 K
Molar Critical Volume: 1118,5 cm3/mol
Melting Point: 334,87 K
Boiling Point: 631 K
Molecular Weight: 284,524
Acentric Factor: 0,976
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-n-nonylnaphthalene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-n-nonylnaphthalene
Alternative Names: []
Formula: C19H26
Critical Pressure: 1680000 Pa
Critical Temperature: 849 K
Molar Critical Volume: 1000 cm3/mol
Melting Point: 284,15 K
Boiling Point: 639 K
Molecular Weight: 254,415
Acentric Factor: 0,617
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-nitropropane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-nitropropane
Alternative Names: []
Formula: C3H7NO2
Critical Pressure: 4350000 Pa
Critical Temperature: 605 K
Molar Critical Volume: 288 cm3/mol
Melting Point: 169,2 K
Boiling Point: 404,3 K
Molecular Weight: 89,094
Acentric Factor: 0,412
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

1-nitrobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-nitrobutane
Alternative Names: []
Formula: C4H9NO2
Critical Pressure: 3800000 Pa
Critical Temperature: 624 K
Molar Critical Volume: 341,5 cm3/mol
Melting Point: 191,8 K
Boiling Point: 426,1 K
Molecular Weight: 103,121
Acentric Factor: 0,452
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-n-hexylnaphthalene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-n-hexylnaphthalene
Alternative Names: [n-hexylnaphthalene]
Formula: C16H20
Critical Pressure: 2250000 Pa
Critical Temperature: 813 K
Molar Critical Volume: 741 cm3/mol
Melting Point: 255,15 K
Boiling Point: 595,15 K
Molecular Weight: 212,335
Acentric Factor: 0,587
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-methylnaphthalene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-methylnaphthalene
Alternative Names: [alpha-methynapthelene]
Formula: C11H10
Critical Pressure: 3600000 Pa
Critical Temperature: 772 K
Molar Critical Volume: 462 cm3/mol
Melting Point: 242,7 K
Boiling Point: 517,9 K
Molecular Weight: 142,201
Acentric Factor: 0,31
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-methylcyclopentene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-methylcyclopentene
Alternative Names: []
Formula: C6H10
Critical Pressure: 3790000 Pa
Critical Temperature: 541,99 K
Molar Critical Volume: 311,2 cm3/mol
Melting Point: 146 K
Boiling Point: 349 K
Molecular Weight: 82,145
Acentric Factor: 0,219
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-methylcyclohexanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-methylcyclohexanol
Alternative Names: []
Formula: C7H14O
Critical Pressure: 3790000 Pa
Critical Temperature: 603 K
Molar Critical Volume: 414 cm3/mol
Melting Point: 299,2 K
Boiling Point: 430,2 K
Molecular Weight: 114,188
Acentric Factor: 0,683
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-chloropentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-chloropentane
Alternative Names: [n-pentyl chloride]
Formula: C5H11Cl
Critical Pressure: 3350000 Pa
Critical Temperature: 568 K
Molar Critical Volume: 352 cm3/mol
Melting Point: 174,2 K
Boiling Point: 381,5 K
Molecular Weight: 106,595
Acentric Factor: 0,334
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-chloro-2,4-dinitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-chloro-2,4-dinitrobenzene
Alternative Names: []
Formula: C6H3CIN2O4
Critical Pressure: 3490000 Pa
Critical Temperature: 813,77 K
Molar Critical Volume: 478 cm3/mol
Melting Point: 326,6 K
Boiling Point: 588 K
Molecular Weight: 202,554
Acentric Factor: 0,732
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-chloro-2,2-difluoroethylene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-chloro-2,2-difluoroethylene
Alternative Names: [2-chloro-1,1-difluoroethylene]
Formula: C2HClF2
Critical Pressure: 4460000 Pa
Critical Temperature: 400,6 K
Molar Critical Volume: 197 cm3/mol
Melting Point: 134,6 K
Boiling Point: 254,6 K
Molecular Weight: 98,4797
Acentric Factor: 0,22
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

1-hexyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-hexyne
Alternative Names: []
Formula: C6H10
Critical Pressure: 3620000 Pa
Critical Temperature: 516,2 K
Molar Critical Volume: 322 cm3/mol
Melting Point: 141,3 K
Boiling Point: 344,5 K
Molecular Weight: 82,145
Acentric Factor: 0,333
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-hexanal

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-hexanal
Alternative Names: []
Formula: C6H12O
Critical Pressure: 3110000 Pa
Critical Temperature: 579 K
Molar Critical Volume: 369 cm3/mol
Melting Point: 217,2 K
Boiling Point: 401,5 K
Molecular Weight: 100,161
Acentric Factor: 0,439
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-hexadecyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-hexadecyne
Alternative Names: []
Formula: C16H30
Critical Pressure: 1472000 Pa
Critical Temperature: 724,26 K
Molar Critical Volume: 893,5 cm3/mol
Melting Point: 288,16 K
Boiling Point: 557,16 K
Molecular Weight: 222,413
Acentric Factor: 0,661
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-hexadecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-hexadecene
Alternative Names: [1-cetene, cetene]
Formula: C16H32
Critical Pressure: 1480000 Pa
Critical Temperature: 722 K
Molar Critical Volume: 933 cm3/mol
Melting Point: 277,51 K
Boiling Point: 558,02 K
Molecular Weight: 224,43
Acentric Factor: 0,732
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-hexadecanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-hexadecanol
Alternative Names: [cetyl alcohol, ethal, hexadecyl alcohol]
Formula: C16H34O
Critical Pressure: 1510000 Pa
Critical Temperature: 761 K
Molar Critical Volume: 907 cm3/mol
Melting Point: 322,35 K
Boiling Point: 585,15 K
Molecular Weight: 242,445
Acentric Factor: 0,748
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-hexadecanethiol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-hexadecanethiol
Alternative Names: [1-mercaptohexadecane , cetyl mercaptan , hexadecyl mercaptan]
Formula: C16H34S
Critical Pressure: 1382000 Pa
Critical Temperature: 774,68 K
Molar Critical Volume: 985,5 cm3/mol
Melting Point: 290,93 K
Boiling Point: 607,16 K
Molecular Weight: 258,505
Acentric Factor: 0,763
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-heptyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-heptyne
Alternative Names: []
Formula: C7H12
Critical Pressure: 3295000 Pa
Critical Temperature: 559,69 K
Molar Critical Volume: 389,5 cm3/mol
Melting Point: 192,3 K
Boiling Point: 372,9 K
Molecular Weight: 96,172
Acentric Factor: 0,292
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-heptanal

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-heptanal
Alternative Names: []
Formula: C7H14O
Critical Pressure: 2800000 Pa
Critical Temperature: 603 K
Molar Critical Volume: 421 cm3/mol
Melting Point: 230,2 K
Boiling Point: 426 K
Molecular Weight: 114,188
Acentric Factor: 0,487
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-heptadecyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-heptadecyne
Alternative Names: [heptadecyne, n-pentadecylacetylene]
Formula: C17H32
Critical Pressure: 1370000 Pa
Critical Temperature: 736,21 K
Molar Critical Volume: 949,5 cm3/mol
Melting Point: 295,16 K
Boiling Point: 572,16 K
Molecular Weight: 236,44
Acentric Factor: 0,69
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-heptadecene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-heptadecene
Alternative Names: [heptadec-1-ene, hexahydroaplotaxene]
Formula: C17H34
Critical Pressure: 1410000 Pa
Critical Temperature: 736 K
Molar Critical Volume: 955 cm3/mol
Melting Point: 284,4 K
Boiling Point: 573,48 K
Molecular Weight: 238,457
Acentric Factor: 0,753
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-heptadecanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-heptadecanol
Alternative Names: [1-hydroxyheptadecane, n-heptadecyl alcohol]
Formula: C14H36O
Critical Pressure: 1430000 Pa
Critical Temperature: 770 K
Molar Critical Volume: 960 cm3/mol
Melting Point: 327,05 K
Boiling Point: 597,15 K
Molecular Weight: 256,472
Acentric Factor: 0,795
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-eicosyne

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-eicosyne
Alternative Names: [1-icosyne]
Formula: C20H38
Critical Pressure: 1119000 Pa
Critical Temperature: 769,79 K
Molar Critical Volume: 1117,5 cm3/mol
Melting Point: 309,16 K
Boiling Point: 613,16 K
Molecular Weight: 278,52
Acentric Factor: 0,75
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-eicosene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-eicosene
Alternative Names: [1-icosene, alpha-eicosene, icosene]
Formula: C20H40
Critical Pressure: 1220000 Pa
Critical Temperature: 771 K
Molar Critical Volume: 1160 cm3/mol
Melting Point: 301,76 K
Boiling Point: 615,54 K
Molecular Weight: 280,538
Acentric Factor: 0,877
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-eicosanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-eicosanol
Alternative Names: [1-icosanol, arachic alcohol, arachidyl alcohol, eicosyl alcohol]
Formula: C20H420
Critical Pressure: 1240000 Pa
Critical Temperature: 792 K
Molar Critical Volume: 1120 cm3/mol
Melting Point: 338,55 K
Boiling Point: 629,15 K
Molecular Weight: 298,553
Acentric Factor: 0,937
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-eicosanethiol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-eicosanethiol
Alternative Names: [eicosyl mercaptan, icosyl mercaptan]
Formula: C20H42S
Critical Pressure: 1058000 Pa
Critical Temperature: 814,57 K
Molar Critical Volume: 1209,5 cm3/mol
Melting Point: 310,37 K
Boiling Point: 656,16 K
Molecular Weight: 314,612
Acentric Factor: 0,809
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclopentylundecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclopentylundecane
Alternative Names: []
Formula: C16H32
Critical Pressure: 1509000 Pa
Critical Temperature: 743,3 K
Molar Critical Volume: 872,5 cm3/mol
Melting Point: 263,16 K
Boiling Point: 568,76 K
Molecular Weight: 224,429
Acentric Factor: 0,638
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclopentyltetradecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclopentyltetradecane
Alternative Names: [tetradecyclcyclopentane]
Formula: C19H38
Critical Pressure: 1120000 Pa
Critical Temperature: 772 K
Molar Critical Volume: 1040,5 cm3/mol
Melting Point: 282 K
Boiling Point: 612,16 K
Molecular Weight: 266,509
Acentric Factor: 0,789
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Undefined]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclopentylnonane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclopentylnonane
Alternative Names: [n-nonylcyclopentane, nonylcyclopentane]
Formula: C14H28
Critical Pressure: 1762000 Pa
Critical Temperature: 716,95 K
Molar Critical Volume: 760,5 cm3/mol
Melting Point: 244,16 K
Boiling Point: 535,26 K
Molecular Weight: 196,375
Acentric Factor: 0,566
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclopentylhexadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclopentylhexadecane
Alternative Names: [Hexadecane, Hexadecylcyclopentane]
Formula: C21H42
Critical Pressure: 1072000 Pa
Critical Temperature: 797,25 K
Molar Critical Volume: 1152,5 cm3/mol
Melting Point: 294,16 K
Boiling Point: 637,16 K
Molecular Weight: 294,563
Acentric Factor: 0,748
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclopentyldodecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclopentyldodecane
Alternative Names: [1-cyclopentyl-4-(3-cyclopentylpropyl)dodecane]
Formula: C14H34
Critical Pressure: 1403000 Pa
Critical Temperature: 755,17 K
Molar Critical Volume: 928,5 cm3/mol
Melting Point: 268,16 K
Boiling Point: 584,06 K
Molecular Weight: 238,456
Acentric Factor: 0,669
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclohexylundecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclohexylundecane
Alternative Names: [1-cyclohexyl-3-(2-cyclohexylethyl)undecane]
Formula: C17H34
Critical Pressure: 1429000 Pa
Critical Temperature: 761,74 K
Molar Critical Volume: 920,5 cm3/mol
Melting Point: 278,96 K
Boiling Point: 586,26 K
Molecular Weight: 238,456
Acentric Factor: 0,646
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclohexyltridecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclohexyltridecane
Alternative Names: [tridecane, tridecylcyclohexane]
Formula: C19H38
Critical Pressure: 1242000 Pa
Critical Temperature: 783,38 K
Molar Critical Volume: 1032,5 cm3/mol
Melting Point: 291,66 K
Boiling Point: 614,66 K
Molecular Weight: 266,509
Acentric Factor: 0,7
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclohexylpentadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclohexylpentadecane
Alternative Names: [cyclohexane, N-PENTADECYLCYCLOHEXANE, pentadecylcyclohexane]
Formula: C21H42
Critical Pressure: 1090000 Pa
Critical Temperature: 803,46 K
Molar Critical Volume: 1144,5 cm3/mol
Melting Point: 302,16 K
Boiling Point: 640,16 K
Molecular Weight: 294,563
Acentric Factor: 0,733
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclohexyloctane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclohexyloctane
Alternative Names: []
Formula: C14H28
Critical Pressure: 1800000 Pa
Critical Temperature: 723,61 K
Molar Critical Volume: 752,5 cm3/mol
Melting Point: 253,46 K
Boiling Point: 536,76 K
Molecular Weight: 196,375
Acentric Factor: 0,538
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclohexylnonane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclohexylnonane
Alternative Names: []
Formula: C15H30
Critical Pressure: 1600000 Pa
Critical Temperature: 737,79 K
Molar Critical Volume: 808,5 cm3/mol
Melting Point: 262,93 K
Boiling Point: 554,66 K
Molecular Weight: 210,402
Acentric Factor: 0,577
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclohexylhexadecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclohexylhexadecane
Alternative Names: [cetylcyclohexane, cyclohexane, hexadecylcyclohexane, n-hexadecylcyclohexane]
Formula: C22H44
Critical Pressure: 1024000 Pa
Critical Temperature: 813,42 K
Molar Critical Volume: 1200,5 cm3/mol
Melting Point: 306,76 K
Boiling Point: 652,16 K
Molecular Weight: 308,59
Acentric Factor: 0,741
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-cyclohexyldodecane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-cyclohexyldodecane
Alternative Names: [dodecane, n-dodecylcyclohexane]
Formula: C18H36
Critical Pressure: 1331000 Pa
Critical Temperature: 772,83 K
Molar Critical Volume: 976,5 cm3/mol
Melting Point: 285,66 K
Boiling Point: 600,86 K
Molecular Weight: 252,482
Acentric Factor: 0,675
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-bromopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-bromopentane
Alternative Names: [pentylbromide]
Formula: C5H11Br
Critical Pressure: 3768000 Pa
Critical Temperature: 564,76 K
Molar Critical Volume: 377,5 cm3/mol
Melting Point: 185,3 K
Boiling Point: 402,7 K
Molecular Weight: 151,046
Acentric Factor: 0,384
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-bromoheptane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-bromoheptane
Alternative Names: []
Formula: C7H15Br
Critical Pressure: 3080000 Pa
Critical Temperature: 651 K
Molar Critical Volume: 447 cm3/mol
Melting Point: 217,1 K
Boiling Point: 452,1 K
Molecular Weight: 179,1
Acentric Factor: 0,444
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1-amino-2-propanol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1-amino-2-propanol
Alternative Names: []
Formula: C3H9NO
Critical Pressure: 5670000 Pa
Critical Temperature: 614 K
Molar Critical Volume: 278 cm3/mol
Melting Point: 274,9 K
Boiling Point: 432,6 K
Molecular Weight: 75,111
Acentric Factor: 0,794
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

10% chlorine water

Fluid Type: Mixture defined as mass percent
Fluid Name: 10% chlorine water
Alternative Names: []
Formula: Mixture
Critical Pressure: -
Critical Temperature: -
Molar Critical Volume: -
Melting Point: -
Boiling Point: -
Molecular Weight: -
Acentric Factor: -
Ideal Gas Specific Heat Coefficients: -
Liquid Density Definition: [Mixture Rules Apply]
Liquid Specific Heat Definition: [Mixture Rules Apply]
Liquid Thermal Conductivity Definition: [Mixture Rules Apply]
Liquid Viscosity Definition: [Mixture Rules Apply]
Vapor Pressure Definition: [Mixture Rules Apply]
Gas Density Definition: [Mixture Rules Apply]
Gas Specific Heat Definition: [Mixture Rules Apply]
Gas Thermal Conductivity Definition: [Mixture Rules Apply]
Gas Viscosity Definition: [Mixture Rules Apply]
Two-Phase Properties: [Estimated]

1,6-hexanediol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,6-hexanediol
Alternative Names: []
Formula: C6H14O2
Critical Pressure: 3610000 Pa
Critical Temperature: 670 K
Molar Critical Volume: 398 cm3/mol
Melting Point: 315,2 K
Boiling Point: 516,2 K
Molecular Weight: 118,176
Acentric Factor: 1,268
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,5-pentanediol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,5-pentanediol
Alternative Names: []
Formula: C5H12O2
Critical Pressure: 4150000 Pa
Critical Temperature: 673 K
Molar Critical Volume: 345 cm3/mol
Melting Point: 257,2 K
Boiling Point: 512,2 K
Molecular Weight: 104,149
Acentric Factor: 1,22
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,5-hexadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,5-hexadiene
Alternative Names: []
Formula: C6H10
Critical Pressure: 3350000 Pa
Critical Temperature: 507 K
Molar Critical Volume: 339 cm3/mol
Melting Point: 132,5 K
Boiling Point: 332,6 K
Molecular Weight: 82,145
Acentric Factor: 0,232
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,5-dichloropentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,5-dichloropentane
Alternative Names: [amylene chloride]
Formula: C5H10Cl2
Critical Pressure: 3190000 Pa
Critical Temperature: 663 K
Molar Critical Volume: 422 cm3/mol
Melting Point: 200,4 K
Boiling Point: 453,2 K
Molecular Weight: 141,04
Acentric Factor: 0,385
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,5-cyclooctadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,5-cyclooctadiene
Alternative Names: [cycloocta-1,5-diene]
Formula: C8H12
Critical Pressure: 3951675 Pa
Critical Temperature: 645 K
Molar Critical Volume: 366 cm3/mol
Melting Point: 203,98 K
Boiling Point: 423,27 K
Molecular Weight: 108,183
Acentric Factor: 0,286
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,4-pentadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,4-pentadiene
Alternative Names: []
Formula: C5H8
Critical Pressure: 3790000 Pa
Critical Temperature: 478 K
Molar Critical Volume: 276 cm3/mol
Melting Point: 124,9 K
Boiling Point: 299,1 K
Molecular Weight: 68,1182
Acentric Factor: 0,104
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,4-dichlrobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,4-dichlrobutane
Alternative Names: [tetramethylene chloride]
Formula: C4H8Cl2
Critical Pressure: 3610000 Pa
Critical Temperature: 641 K
Molar Critical Volume: 343 cm3/mol
Melting Point: 235,9 K
Boiling Point: 427,1 K
Molecular Weight: 127,013
Acentric Factor: 0,322
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,4-dichloro-trans-2-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,4-dichloro-trans-2-butene
Alternative Names: []
Formula: C4H6Cl2
Critical Pressure: 3780000 Pa
Critical Temperature: 646 K
Molar Critical Volume: 330 cm3/mol
Melting Point: 274,2 K
Boiling Point: 429,3 K
Molecular Weight: 124,997
Acentric Factor: 0,333
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,4-dichloro-cis-2-butene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,4-dichloro-cis-2-butene
Alternative Names: []
Formula: C4H6Cl2
Critical Pressure: 3780000 Pa
Critical Temperature: 640 K
Molar Critical Volume: 343 cm3/mol
Melting Point: 225,2 K
Boiling Point: 425,7 K
Molecular Weight: 124,997
Acentric Factor: 0,331
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,4-butanediol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,4-butanediol
Alternative Names: [tetramethylene glycol]
Formula: C4H10O2
Critical Pressure: 4880000 Pa
Critical Temperature: 667 K
Molar Critical Volume: 297 cm3/mol
Melting Point: 293,05 K
Boiling Point: 501,15 K
Molecular Weight: 90,122
Acentric Factor: 1,189
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,3-propylene glycol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,3-propylene glycol
Alternative Names: [1,3-propanediol]
Formula: C3H8O2
Critical Pressure: 5920000 Pa
Critical Temperature: 658 K
Molar Critical Volume: 217 cm3/mol
Melting Point: 246,5 K
Boiling Point: 487,6 K
Molecular Weight: 76,095
Acentric Factor: 1,152
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

1,3-dichloropropane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,3-dichloropropane
Alternative Names: []
Formula: C3H6Cl2
Critical Pressure: 4150000 Pa
Critical Temperature: 603 K
Molar Critical Volume: 291 cm3/mol
Melting Point: 173,7 K
Boiling Point: 393,6 K
Molecular Weight: 112,987
Acentric Factor: 0,292
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,3-butanediol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,3-butanediol
Alternative Names: [methyltrimethylene glycol]
Formula: C4H10O2
Critical Pressure: 5000000 Pa
Critical Temperature: 643 K
Molar Critical Volume: 292 cm3/mol
Melting Point: 196,15 K
Boiling Point: 480,15 K
Molecular Weight: 90,122
Acentric Factor: 1,146
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,3-butadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,3-butadiene
Alternative Names: [bivinyl, biethylene]
Formula: C4H6
Critical Pressure: 4320000 Pa
Critical Temperature: 425 K
Molar Critical Volume: 221 cm3/mol
Melting Point: 164,3 K
Boiling Point: 268,62 K
Molecular Weight: 54,092
Acentric Factor: 0,195
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Polynomial]
Liquid Viscosity Definition: [Ln(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,3-benzenediol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,3-benzenediol
Alternative Names: []
Formula: C6H6O2
Critical Pressure: 7490000 Pa
Critical Temperature: 810 K
Molar Critical Volume: 300 cm3/mol
Melting Point: 382 K
Boiling Point: 549,7 K
Molecular Weight: 110,112
Acentric Factor: 0,677
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,3,5-trinitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,3,5-trinitrobenzene
Alternative Names: []
Formula: C6H3N3O6
Critical Pressure: 3390000 Pa
Critical Temperature: 1005 K
Molar Critical Volume: 520 cm3/mol
Melting Point: 398,4 K
Boiling Point: 748 K
Molecular Weight: 213,106
Acentric Factor: 0,808
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,3,5-trimethylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,3,5-trimethylbenzene
Alternative Names: [mesitylene]
Formula: C9H12
Critical Pressure: 3127000 Pa
Critical Temperature: 637,3 K
Molar Critical Volume: 433 cm3/mol
Melting Point: 228,4 K
Boiling Point: 437,9 K
Molecular Weight: 120,194
Acentric Factor: 0,398
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Estimated]

1,2-propylene oxide

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-propylene oxide
Alternative Names: [propene oxide, epoxypropane]
Formula: C3H6O
Critical Pressure: 4920000 Pa
Critical Temperature: 482,2 K
Molar Critical Volume: 186 cm3/mol
Melting Point: 161,2 K
Boiling Point: 308 K
Molecular Weight: 58,0798
Acentric Factor: 0,269
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2-propylene glycol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-propylene glycol
Alternative Names: [1,2-propanediol, methylethylene glycol, sirlene]
Formula: C3H8O2
Critical Pressure: 6070000 Pa
Critical Temperature: 625 K
Molar Critical Volume: 237 cm3/mol
Melting Point: 213 K
Boiling Point: 460,5 K
Molecular Weight: 76,095
Acentric Factor: 0,32
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

1,2-propanediamine

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-propanediamine
Alternative Names: []
Formula: C3H10N2
Critical Pressure: 5270000 Pa
Critical Temperature: 587 K
Molar Critical Volume: 316 cm3/mol
Melting Point: 236,5 K
Boiling Point: 392,5 K
Molecular Weight: 74,126
Acentric Factor: 0,474
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

1,2-pentadiene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-pentadiene
Alternative Names: [ethyl allene]
Formula: C5H8
Critical Pressure: 4070000 Pa
Critical Temperature: 503 K
Molar Critical Volume: 276 cm3/mol
Melting Point: 135,9 K
Boiling Point: 318 K
Molecular Weight: 68,119
Acentric Factor: 0,173
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2-epoxybutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-epoxybutane
Alternative Names: [alpha-butylene oxide, ethylethylene oxide]
Formula: C4H8O
Critical Pressure: 4390000 Pa
Critical Temperature: 526 K
Molar Critical Volume: 258 cm3/mol
Melting Point: 123,2 K
Boiling Point: 336,6 K
Molecular Weight: 72,107
Acentric Factor: 0,235
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2-dimethoxyethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-dimethoxyethane
Alternative Names: [ethylene dimethyl ether]
Formula: C4H10O2
Critical Pressure: 3870000 Pa
Critical Temperature: 536,15 K
Molar Critical Volume: 270,6 cm3/mol
Melting Point: 215,15 K
Boiling Point: 357,2 K
Molecular Weight: 90,122
Acentric Factor: 0,346
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2-diiodopropane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-diiodopropane
Alternative Names: []
Formula: C3H6I2
Critical Pressure: 4210000 Pa
Critical Temperature: 780,5 K
Molar Critical Volume: 373,5 cm3/mol
Melting Point: 253 K
Boiling Point: 500,2 K
Molecular Weight: 295,889
Acentric Factor: 0,237
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Estimated]

1,2-diiodobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-diiodobutane
Alternative Names: []
Formula: C4H8I2
Critical Pressure: 3727000 Pa
Critical Temperature: 726,4 K
Molar Critical Volume: 429,5 cm3/mol
Melting Point: 279,1 K
Boiling Point: 476,8 K
Molecular Weight: 309,916
Acentric Factor: 0,281
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2-dichloro-4-nitrobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-dichloro-4-nitrobenzene
Alternative Names: []
Formula: C6H3Cl2NO2
Critical Pressure: 3600000 Pa
Critical Temperature: 758 K
Molar Critical Volume: 436 cm3/mol
Melting Point: 315,7 K
Boiling Point: 529 K
Molecular Weight: 192,001
Acentric Factor: 0,539
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Sato Reidel]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2-dibromobutane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-dibromobutane
Alternative Names: []
Formula: C4H8Br2
Critical Pressure: 4717000 Pa
Critical Temperature: 659,3 K
Molar Critical Volume: 377,5 cm3/mol
Melting Point: 207,8 K
Boiling Point: 439,5 K
Molecular Weight: 215,915
Acentric Factor: 0,429
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2-bezenediol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2-bezenediol
Alternative Names: []
Formula: C6H6O2
Critical Pressure: 7490000 Pa
Critical Temperature: 764 K
Molar Critical Volume: 300 cm3/mol
Melting Point: 377,6 K
Boiling Point: 518,7 K
Molecular Weight: 110,112
Acentric Factor: 0,701
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2,4-trimethylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2,4-trimethylbenzene
Alternative Names: [pseudocumene]
Formula: C9H12
Critical Pressure: 3232000 Pa
Critical Temperature: 649,1 K
Molar Critical Volume: 435 cm3/mol
Melting Point: 229,3 K
Boiling Point: 442,53 K
Molecular Weight: 120,194
Acentric Factor: 0,376
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Andrade]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2,4-trichlorobenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2,4-trichlorobenzene
Alternative Names: []
Formula: C6H3Cl3
Critical Pressure: 3720000 Pa
Critical Temperature: 725 K
Molar Critical Volume: 395 cm3/mol
Melting Point: 290,2 K
Boiling Point: 486,2 K
Molecular Weight: 181,448
Acentric Factor: 0,358
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Chung]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2,4,5-tetramethylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2,4,5-tetramethylbenzene
Alternative Names: [durene, durol]
Formula: C10H14
Critical Pressure: 2900000 Pa
Critical Temperature: 676 K
Molar Critical Volume: 480 cm3/mol
Melting Point: 352,4 K
Boiling Point: 470 K
Molecular Weight: 134,222
Acentric Factor: 0,435
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2,4,5-tetraethylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2,4,5-tetraethylbenzene
Alternative Names: []
Formula: C14H22
Critical Pressure: 1930000 Pa
Critical Temperature: 706,85 K
Molar Critical Volume: 711,5 cm3/mol
Melting Point: 283,16 K
Boiling Point: 523,16 K
Molecular Weight: 190,328
Acentric Factor: 0,562
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Wagner Estimation]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2,3-trimethylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2,3-trimethylbenzene
Alternative Names: [hemimellitene]
Formula: C9H12
Critical Pressure: 3454000 Pa
Critical Temperature: 664,5 K
Molar Critical Volume: 430 cm3/mol
Melting Point: 247,7 K
Boiling Point: 449,2 K
Molecular Weight: 120,195
Acentric Factor: 0,366
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2,3-benzenetriol

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2,3-benzenetriol
Alternative Names: [pyrogallol, pyrogallic acid]
Formula: C6H6O3
Critical Pressure: 8810000 Pa
Critical Temperature: 830 K
Molar Critical Volume: 318 cm3/mol
Melting Point: 407 K
Boiling Point: 581,9 K
Molecular Weight: 126,112
Acentric Factor: 0,945
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Estimation]
Liquid Specific Heat Definition: [Polynomial]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Log10(viscosity) = A + B/T + CT + DT^2]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Peng Robinson EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,2,3,5-tetramethylbenzene

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,2,3,5-tetramethylbenzene
Alternative Names: [isodurene]
Formula: C10H14
Critical Pressure: 2870000 Pa
Critical Temperature: 679 K
Molar Critical Volume: 487,5 cm3/mol
Melting Point: 249 K
Boiling Point: 471,3 K
Molecular Weight: 134,221
Acentric Factor: 0,412
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,1-dimethylcyclopentane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,1-dimethylcyclopentane
Alternative Names: []
Formula: C7H14
Critical Pressure: 3440000 Pa
Critical Temperature: 547 K
Molar Critical Volume: 360 cm3/mol
Melting Point: 203,4 K
Boiling Point: 361 K
Molecular Weight: 98,1876
Acentric Factor: 0,273
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Spencer Danner]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,1-dimethylcyclohexane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,1-dimethylcyclohexane
Alternative Names: [gem-dimethylcyclohexane]
Formula: C8H16
Critical Pressure: 2960000 Pa
Critical Temperature: 591 K
Molar Critical Volume: 416 cm3/mol
Melting Point: 239,7 K
Boiling Point: 392,7 K
Molecular Weight: 112,216
Acentric Factor: 0,238
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [BWR HS EOS]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,1,2-trichloroethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,1,2-trichloroethane
Alternative Names: [vinyl trichloride, ethane trichloride]
Formula: C2H3Cl3
Critical Pressure: 5140000 Pa
Critical Temperature: 606 K
Molar Critical Volume: 294 cm3/mol
Melting Point: 236 K
Boiling Point: 386,6 K
Molecular Weight: 133,405
Acentric Factor: 0,24
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Przezdziecki Estimate]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Lee Kesler Corresponding States]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Polynomial]
Two-Phase Properties: [Data Provided]

1,1,2,2-tetrachloroethane

Fluid Type: Pure Newtonian Fluid
Fluid Name: 1,1,2,2-tetrachloroethane
Alternative Names: [acetylene tetrachloride]
Formula: C2H2Cl4
Critical Pressure: 5840000 Pa
Critical Temperature: 661 K
Molar Critical Volume: 325 cm3/mol
Melting Point: 229,4 K
Boiling Point: 419,6 K
Molecular Weight: 167,85
Acentric Factor: 0,259
Ideal Gas Specific Heat Coefficients: [Polynomial]
Liquid Density Definition: [Yamada Gunn Reference Value]
Liquid Specific Heat Definition: [Lee Kesler Corresponding States]
Liquid Thermal Conductivity Definition: [Log Power Law]
Liquid Viscosity Definition: [Table]
Vapor Pressure Definition: [Log Polynomial]
Gas Density Definition: [Lee Kesler Corresponding States]
Gas Specific Heat Definition: [Ideal Gas Coefficients]
Gas Thermal Conductivity Definition: [Polynomial]
Gas Viscosity Definition: [Chung]
Two-Phase Properties: [Data Provided]