

Ethanol, 2-(2-methoxyethoxy)-

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|-----------------------------|---|
| Other names: | 2-(2-Methoxyethoxy)ethanol 2-(Methoxyethoxy)ethanol 3,6-Dioxa-1-heptanol Diethylene glycol methyl ether Diethylene glycol monomethyl ether Diglycol monomethyl ether Dowanol DM Ektasolve DM Ethanol, 2,2'-oxybis-, monomethyl ether Ethylene diglycol monomethyl ether Hicotol CAR MECB Methoxydiglycol Methyl carbitol Methyl di-icinol Methyl digol Methyl dioxitol Methyl karbitol NSC 2261 Poly-Solv DM diethylene glycol, methyl ether diethylene glycol, monomethyl ether «beta»-Methoxy-«beta»'-hydroxydiethyl ether Â«betaÂ»-Methoxy-Â«betaÂ»'-hydroxydiethyl ether |
| Inchi: | InChI=1S/C5H12O3/c1-7-4-5-8-3-2-6/h6H,2-5H2,1H3 |
| InchiKey: | SBASXUCJHJRPEV-UHFFFAOYSA-N |
| Formula: | C5H12O3 |
| SMILES: | COCCOCCO |
| Mol. weight [g/mol]: | 120.15 |
| CAS: | 111-77-3 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|--------|---------------|
| chl | -3010.00 | kJ/mol | NIST Webbook |
| gf | -355.60 | kJ/mol | Joback Method |
| hf | -563.20 | kJ/mol | Joback Method |

| | | | | |
|---------|------------------|--|----------------------|----------------|
| hfl | -670.30 | | kJ/mol | NIST Webbook |
| hfus | 15.17 | | kJ/mol | Joback Method |
| hvap | 48.22 | | kJ/mol | Joback Method |
| log10ws | 0.65 | | | Crippen Method |
| logp | -0.358 | | | Crippen Method |
| mcvol | 98.920 | | ml/mol | McGowan Method |
| pc | 3670.00 ± 150.00 | | kPa | NIST Webbook |
| rinpol | 920.00 | | | NIST Webbook |
| rinpol | 947.00 | | | NIST Webbook |
| rinpol | 908.00 | | | NIST Webbook |
| rinpol | 924.00 | | | NIST Webbook |
| rinpol | 932.00 | | | NIST Webbook |
| rinpol | 937.80 | | | NIST Webbook |
| rinpol | 907.00 | | | NIST Webbook |
| ripol | 1620.00 | | | NIST Webbook |
| ripol | 1589.00 | | | NIST Webbook |
| ripol | 1576.00 | | | NIST Webbook |
| ripol | 1553.00 | | | NIST Webbook |
| tb | 466.20 | | K | NIST Webbook |
| tb | 466.10 ± 0.70 | | K | NIST Webbook |
| tb | 502.40 ± 2.50 | | K | NIST Webbook |
| tb | 471.00 ± 3.00 | | K | NIST Webbook |
| tc | 672.00 ± 2.00 | | K | NIST Webbook |
| tf | 251.39 | | K | Joback Method |
| vc | 0.370 | | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 212.62 | J/mol×K | 450.82 | Joback Method |
| cpg | 258.36 | J/mol×K | 612.92 | Joback Method |
| cpg | 251.25 | J/mol×K | 585.91 | Joback Method |
| cpg | 243.93 | J/mol×K | 558.89 | Joback Method |
| cpg | 236.40 | J/mol×K | 531.87 | Joback Method |
| cpg | 228.67 | J/mol×K | 504.85 | Joback Method |
| cpg | 220.74 | J/mol×K | 477.84 | Joback Method |

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|-----|--------|---------|--------|--|
| cpl | 273.40 | J/mol×K | 319.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 275.30 | J/mol×K | 325.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 274.70 | J/mol×K | 323.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 276.00 | J/mol×K | 327.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 276.60 | J/mol×K | 329.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 277.30 | J/mol×K | 331.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 278.00 | J/mol×K | 333.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |

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|-----|--------|---------|--------|--|
| cpl | 278.70 | J/mol×K | 335.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 279.40 | J/mol×K | 337.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 280.10 | J/mol×K | 339.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 261.90 | J/mol×K | 275.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 262.30 | J/mol×K | 277.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 262.70 | J/mol×K | 279.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 263.20 | J/mol×K | 281.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |

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|-----|--------|---------|--------|--|
| cpl | 263.60 | J/mol×K | 283.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 264.10 | J/mol×K | 285.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 264.60 | J/mol×K | 287.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 274.00 | J/mol×K | 321.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 265.60 | J/mol×K | 291.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 266.10 | J/mol×K | 293.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 266.60 | J/mol×K | 295.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |

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|-----|--------|---------|--------|--|
| cpl | 267.10 | J/mol×K | 297.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 267.40 | J/mol×K | 298.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 267.60 | J/mol×K | 299.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 268.20 | J/mol×K | 301.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 268.70 | J/mol×K | 303.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 269.30 | J/mol×K | 305.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 269.80 | J/mol×K | 307.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |

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|-------|-----------|---------|--------|--|
| cpl | 270.40 | J/mol×K | 309.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 271.00 | J/mol×K | 311.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 271.60 | J/mol×K | 313.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 272.20 | J/mol×K | 315.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 272.80 | J/mol×K | 317.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| cpl | 265.10 | J/mol×K | 289.15 | Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm) |
| dvisc | 0.0060175 | Paxs | 284.63 | Joback Method |
| dvisc | 0.0004929 | Paxs | 384.34 | Joback Method |
| dvisc | 0.0009692 | Paxs | 351.11 | Joback Method |
| dvisc | 0.0021951 | Paxs | 317.87 | Joback Method |
| dvisc | 0.0215378 | Paxs | 251.39 | Joback Method |
| dvisc | 0.0001719 | Paxs | 450.82 | Joback Method |
| dvisc | 0.0002792 | Paxs | 417.58 | Joback Method |
| hvapt | 51.90 | kJ/mol | 425.50 | NIST Webbook |

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|------|---------|-------------------|--------|--|
| rfi | 1.42450 | | 298.15 | Volumetric and viscometric study of aqueous binary mixtures of some glycol ethers at T = (275.15 and 283.15) K |
| rfi | 1.42500 | | 298.15 | Thermodynamic and optical studies of some ethylene glycol ethers in aqueous solutions at T = 298.15 K |
| rfi | 1.42420 | | 298.15 | Physical and excess properties of a room temperature ionic liquid (1-methyl-3-octylimidazolium tetrafluoroborate) with n-alkoxyethanols (C1Em, m = 1 to 3) at T = (298.15 to 318.15) K |
| rhoI | 975.00 | kg/m ³ | 343.15 | Thermophysical properties of glycols and glymes |
| rhoI | 1024.20 | kg/m ³ | 288.15 | Thermophysical properties of glycols and glymes |
| rhoI | 1019.80 | kg/m ³ | 293.15 | Thermophysical properties of glycols and glymes |
| rhoI | 1028.60 | kg/m ³ | 283.15 | Thermophysical properties of glycols and glymes |
| rhoI | 1015.40 | kg/m ³ | 298.15 | Thermophysical properties of glycols and glymes |
| rhoI | 1011.00 | kg/m ³ | 303.15 | Thermophysical properties of glycols and glymes |
| rhoI | 1006.60 | kg/m ³ | 308.15 | Thermophysical properties of glycols and glymes |
| rhoI | 1002.10 | kg/m ³ | 313.15 | Thermophysical properties of glycols and glymes |

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|------|---------|-------|--------|---|
| rhoI | 993.20 | kg/m3 | 323.15 | Thermophysical properties of glycols and glymes |
| rhoI | 984.10 | kg/m3 | 333.15 | Thermophysical properties of glycols and glymes |
| rhoI | 1016.43 | kg/m3 | 298.15 | Speeds of Sound and Isentropic Compressibilities of n-Alkoxyethanols and Polyethers with Propylamine at 298.15K |
| rhoI | 1020.80 | kg/m3 | 293.15 | Volumetric properties of binary mixtures of alkoxyethanols with ethyl tert-butyl ether at various temperatures |
| rhoI | 1016.40 | kg/m3 | 298.15 | Volumetric properties of binary mixtures of alkoxyethanols with ethyl tert-butyl ether at various temperatures |
| rhoI | 1011.83 | kg/m3 | 303.15 | Volumetric properties of binary mixtures of alkoxyethanols with ethyl tert-butyl ether at various temperatures |
| rhoI | 1007.69 | kg/m3 | 308.15 | Volumetric properties of binary mixtures of alkoxyethanols with ethyl tert-butyl ether at various temperatures |
| rhoI | 1003.22 | kg/m3 | 313.15 | Volumetric properties of binary mixtures of alkoxyethanols with ethyl tert-butyl ether at various temperatures |

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|------|---------|-------|--------|--|
| rho1 | 1015.60 | kg/m3 | 298.15 | Excess molar enthalpies and volumes of binary mixtures of nonafluorobutylmethylether with ethylene glycol ethers at T = 298.15 K |
| rho1 | 953.10 | kg/m3 | 368.15 | Thermophysical properties of glycols and glymes |
| rho1 | 1021.00 | kg/m3 | 293.15 | Thermophysical properties of glycols and glymes |
| rho1 | 1016.30 | kg/m3 | 298.15 | Thermophysical properties of glycols and glymes |
| rho1 | 1011.90 | kg/m3 | 303.15 | Thermophysical properties of glycols and glymes |
| rho1 | 1007.40 | kg/m3 | 308.15 | Thermophysical properties of glycols and glymes |
| rho1 | 1003.00 | kg/m3 | 313.15 | Thermophysical properties of glycols and glymes |
| rho1 | 998.80 | kg/m3 | 318.15 | Thermophysical properties of glycols and glymes |
| rho1 | 994.30 | kg/m3 | 323.15 | Thermophysical properties of glycols and glymes |
| rho1 | 989.80 | kg/m3 | 328.15 | Thermophysical properties of glycols and glymes |
| rho1 | 985.30 | kg/m3 | 333.15 | Thermophysical properties of glycols and glymes |
| rho1 | 981.00 | kg/m3 | 338.15 | Thermophysical properties of glycols and glymes |
| rho1 | 976.50 | kg/m3 | 343.15 | Thermophysical properties of glycols and glymes |
| rho1 | 971.80 | kg/m3 | 348.15 | Thermophysical properties of glycols and glymes |

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|---------|---------|-------------------|--------|--|
| rhoI | 967.20 | kg/m ³ | 353.15 | Thermophysical properties of glycols and glymes |
| rhoI | 962.50 | kg/m ³ | 358.15 | Thermophysical properties of glycols and glymes |
| rhoI | 957.90 | kg/m ³ | 363.15 | Thermophysical properties of glycols and glymes |
| rhoI | 1025.30 | kg/m ³ | 288.15 | Thermophysical properties of glycols and glymes |
| rhoI | 948.50 | kg/m ³ | 373.15 | Thermophysical properties of glycols and glymes |
| speedsI | 1451.00 | m/s | 288.15 | Volumetric and Acoustic Properties of Binary Mixtures of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate [bmim][BF ₄] with Alkoxyalkanols at Different Temperatures |
| speedsI | 1434.00 | m/s | 293.15 | Volumetric and Acoustic Properties of Binary Mixtures of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate [bmim][BF ₄] with Alkoxyalkanols at Different Temperatures |
| speedsI | 1416.00 | m/s | 298.15 | Volumetric and Acoustic Properties of Binary Mixtures of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate [bmim][BF ₄] with Alkoxyalkanols at Different Temperatures |

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|---------|---------|-----|--------|---|
| speedsl | 1382.00 | m/s | 308.15 | Volumetric and Acoustic Properties of Binary Mixtures of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate [bmim][BF4] with Alkoxyalkanols at Different Temperatures |
| speedsl | 1366.00 | m/s | 313.15 | Volumetric and Acoustic Properties of Binary Mixtures of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate [bmim][BF4] with Alkoxyalkanols at Different Temperatures |
| speedsl | 1349.00 | m/s | 318.15 | Volumetric and Acoustic Properties of Binary Mixtures of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate [bmim][BF4] with Alkoxyalkanols at Different Temperatures |
| speedsl | 1399.00 | m/s | 303.15 | Volumetric and Acoustic Properties of Binary Mixtures of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate [bmim][BF4] with Alkoxyalkanols at Different Temperatures |
| srf | 0.03 | N/m | 298.15 | Experimental Surface Tensions and Derived Surface Properties of Binary Mixtures of Water + Alkoxyethanols (C1Em, m = 1, 2, 3) and Water + Ethylene Glycol Dimethyl Ether (C1E1C1) at (298.15, 308.15, and 318.15) K |

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|-----|------|-----|--------|---|
| srf | 0.03 | N/m | 308.15 | Experimental Surface Tensions and Derived Surface Properties of Binary Mixtures of Water + Alkoxyethanols (C1Em, m = 1, 2, 3) and Water + Ethylene Glycol Dimethyl Ether (C1E1C1) at (298.15, 308.15, and 318.15) K |
|-----|------|-----|--------|---|

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|-----|------|-----|--------|---|
| srf | 0.03 | N/m | 318.15 | Experimental Surface Tensions and Derived Surface Properties of Binary Mixtures of Water + Alkoxyethanols (C1Em, m = 1, 2, 3) and Water + Ethylene Glycol Dimethyl Ether (C1E1C1) at (298.15, 308.15, and 318.15) K |
|-----|------|-----|--------|---|

Correlations

| Information | Value |
|-----------------------------|-------------------------------|
| Property code | pvap |
| Equation | $\ln(P_{vp}) = A + B/(T + C)$ |
| Coeff. A | 1.78402e+01 |
| Coeff. B | -5.84302e+03 |
| Coeff. C | -2.48290e+01 |
| Temperature range (K), min. | 357.72 |
| Temperature range (K), max. | 491.20 |

Datasets

Mass density, kg/m³

| Temperature, K - Liquid | Pressure, kPa - Liquid | Mass density, kg/m3 - Liquid |
|-------------------------|------------------------|------------------------------|
| 283.15 | 100.00 | 1028.5 |
| 283.15 | 1000.00 | 1029.0 |
| 283.15 | 2500.00 | 1029.8 |
| 283.15 | 5000.00 | 1031.2 |
| 283.15 | 7500.00 | 1032.5 |
| 283.15 | 10000.00 | 1033.9 |
| 283.15 | 15000.00 | 1036.4 |
| 283.15 | 20000.00 | 1039.0 |
| 283.15 | 25000.00 | 1041.4 |
| 293.15 | 100.00 | 1019.5 |
| 293.15 | 1000.00 | 1020.0 |
| 293.15 | 2500.00 | 1020.9 |
| 293.15 | 5000.00 | 1022.3 |
| 293.15 | 7500.00 | 1023.7 |
| 293.15 | 10000.00 | 1025.2 |
| 293.15 | 15000.00 | 1027.9 |
| 293.15 | 20000.00 | 1030.5 |
| 293.15 | 25000.00 | 1033.1 |
| 303.15 | 100.00 | 1010.8 |
| 303.15 | 1000.00 | 1011.3 |
| 303.15 | 2500.00 | 1012.2 |
| 303.15 | 5000.00 | 1013.6 |
| 303.15 | 7500.00 | 1015.0 |
| 303.15 | 10000.00 | 1016.4 |
| 303.15 | 15000.00 | 1019.3 |
| 303.15 | 20000.00 | 1022.1 |
| 303.15 | 25000.00 | 1024.8 |
| 313.15 | 100.00 | 1002.0 |
| 313.15 | 1000.00 | 1002.6 |
| 313.15 | 2500.00 | 1003.5 |
| 313.15 | 5000.00 | 1005.1 |
| 313.15 | 7500.00 | 1006.7 |
| 313.15 | 10000.00 | 1008.2 |
| 313.15 | 15000.00 | 1011.2 |
| 313.15 | 20000.00 | 1014.1 |
| 313.15 | 25000.00 | 1016.9 |
| 323.15 | 100.00 | 993.2 |
| 323.15 | 1000.00 | 993.9 |
| 323.15 | 2500.00 | 994.9 |
| 323.15 | 5000.00 | 996.6 |
| 323.15 | 7500.00 | 998.3 |
| 323.15 | 10000.00 | 1000.0 |
| 323.15 | 15000.00 | 1003.2 |

| | | |
|--------|----------|--------|
| 323.15 | 20000.00 | 1006.2 |
| 323.15 | 25000.00 | 1009.2 |
| 333.15 | 100.00 | 983.9 |
| 333.15 | 1000.00 | 984.6 |
| 333.15 | 2500.00 | 985.6 |
| 333.15 | 5000.00 | 987.4 |
| 333.15 | 7500.00 | 989.1 |
| 333.15 | 10000.00 | 990.8 |
| 333.15 | 15000.00 | 994.1 |
| 333.15 | 20000.00 | 997.2 |
| 333.15 | 25000.00 | 1000.2 |
| 343.15 | 100.00 | 975.2 |
| 343.15 | 1000.00 | 975.8 |
| 343.15 | 2500.00 | 977.0 |
| 343.15 | 5000.00 | 978.8 |
| 343.15 | 7500.00 | 980.6 |
| 343.15 | 10000.00 | 982.4 |
| 343.15 | 15000.00 | 985.9 |
| 343.15 | 20000.00 | 989.2 |
| 343.15 | 25000.00 | 992.4 |
| 353.15 | 100.00 | 965.7 |
| 353.15 | 1000.00 | 966.4 |
| 353.15 | 2500.00 | 967.6 |
| 353.15 | 5000.00 | 969.5 |
| 353.15 | 7500.00 | 971.4 |
| 353.15 | 10000.00 | 973.3 |
| 353.15 | 15000.00 | 976.9 |
| 353.15 | 20000.00 | 980.4 |
| 353.15 | 25000.00 | 983.7 |

Reference

<https://www.doi.org/10.1021/je034218n>

Sources

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Thermophysical properties of ionic liquid {1-butyl-3-methylimidazolium hexafluorophosphate} + alkanols + esters: Vapor pressures at different temperatures.

<https://www.doi.org/10.1016/j.jct.2012.08.023>

The Yaws Handbook of Vapor Pressure: Estimation, Prediction, and Correlation.

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

Excess molar enthalpies and volumes of binary mixtures of

<https://www.doi.org/10.1016/j.jct.2005.02.011>

1-methyl-2-pyrrolidone with ethylene glycol ethers at T = 298.15 K: NIST Webbook:

<http://link.springer.com/article/10.1007/BF02311772>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C111773&Units=SI>

Liquid Density Measurements of Diethylene Glycol Monoalkyl Ethers as a Function of Temperature and Heat Capacities of Liquid Polyoxyethylene Glycols: Properties of a room temperature ionic liquid (1-butyl-3-methylimidazolium tetrafluoroborate) mixtures of some glycol ethers (C1Em, m = 1, 2, 3) and water + ethylene glycol dimethyl ether and glymes (298.15, 308.15, and 318.15) K: Thermodynamic and optical studies of some ethylene glycol ethers in aqueous solutions at 298.15 K: mixtures of alkoxyethanols with ethyl acetate and acrylonitrile: Properties of binary mixtures of the ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate [bmim][BF₄] with alkoxyalkanols at different temperatures

<https://www.doi.org/10.1021/je034218n>
<https://www.doi.org/10.1021/acs.jced.5b00051>
<https://www.doi.org/10.1016/j.jct.2007.09.011>
<https://www.doi.org/10.1016/j.jct.2011.07.008>
<https://www.doi.org/10.1007/s10765-006-0047-0>
<https://www.doi.org/10.1021/je030173e>
<http://pubs.acs.org/doi/abs/10.1021/ci9903071>
<https://www.doi.org/10.1021/acs.jced.5b00662>
<https://www.doi.org/10.1016/j.jct.2009.01.010>
<https://www.doi.org/10.1016/j.jct.2004.09.014>
<https://www.doi.org/10.1021/je2010209>

Legend

| | |
|-----------------|---|
| chl: | Standard liquid enthalpy of combustion |
| cpg: | Ideal gas heat capacity |
| cpl: | Liquid phase heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfl: | Liquid phase enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| hvapt: | Enthalpy of vaporization at a given temperature |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| pvap: | Vapor pressure |
| rfi: | Refractive Index |
| rho: | Liquid Density |
| rinpol: | Non-polar retention indices |
| ripol: | Polar retention indices |
| speedsl: | Speed of sound in fluid |
| srf: | Surface Tension |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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