Ethanol, 2-ethoxy-

Other names:

1,2-ethanediol, monoethyl ether
2-Ethoxyethanol
2-Ethoxyethyl alcohol
2-ethoxyethan-1-ol
2-ethoxyethanol (cellosolve)
2EE
3-oxa-1-pentanol
Bikanol E 1
Cellosolve
Cellosolve solvent
Dowanol EE
EE solvent
EGEE
Ektasolve EE
Emkanol
Ether monoethylique de l'ethylene-glycol
Ethoxyethanol
Ethyl cellosolve
Ethyl glycol
Ethyl icinol
Ethyl-2-hydroxyethyl ether
Ethylene glycol ethyl ether
Ethylene glycol monoethyl ether
Ethylethylene glycol
Etoksyetylowy alkohol
Glycol ether EE
Glycol ethyl ether
Glycol monoethyl ether
HOCH2CH2OC2H5
Hydroxy ether
Jeffersol EE
NCI-C54853
NSC 8837
Oxitol
Plastiazan 60
Poly-Solv EE
Solvid
ethylene glycol, monoethyl ether
«beta»-Ethoxyethanol
Â«betaÂ»-Ethoxyethanol

Inchi: InChI=1S/C4H10O2/c1-2-6-4-3-5/h5H,2-4H2,1H3
InchiKey: ZNQVEEAIQZEUHB-UHFFFAOYSA-N
Formula: C4H10O2
SMILES: CCOCCO
Mol. weight [g/mol]: 90.12
CAS: 110-80-5

Physical Properties

Property code	Value	Unit	Source
dvisc	0.0018450	Pa×s	Conductance Studies of NaCl, KCl, NaBr, NaI, NaBPh4, and Bu4NI in Water + 2-Ethoxyethanol Mixtures at 298.15 K
gf	-259.02	kJ/mol	Joback Method
hf	-410.34	kJ/mol	Joback Method
hfus	11.39	kJ/mol	Joback Method
hvap	49.40	kJ/mol	NIST Webbook
hvap	49.20	kJ/mol	NIST Webbook
hvap	48.23	kJ/mol	NIST Webbook
hvap	48.20 ± 0.10	kJ/mol	NIST Webbook
hvap	50.00	kJ/mol	NIST Webbook
ie	9.60	eV	NIST Webbook
ie	9.97	eV	NIST Webbook
log10ws	0.15		Crippen Method
logp	0.015		Crippen Method
mcvol	78.960	ml/mol	McGowan Method
pc	4288.66	kPa	Joback Method
rinpol	716.50		NIST Webbook
rinpol	701.00		NIST Webbook
rinpol	694.00		NIST Webbook
rinpol	718.00		NIST Webbook
rinpol	687.00		NIST Webbook
rinpol	671.00		NIST Webbook
rinpol	694.00		NIST Webbook
rinpol	666.00		NIST Webbook
rinpol	670.00		NIST Webbook
rinpol	695.00		NIST Webbook
rinpol	708.00		NIST Webbook
rinpol	716.00		NIST Webbook
rinpol	743.50		NIST Webbook

rinpol	702.00		NIST Webbook
rinpol	702.00		NIST Webbook
rinpol	694.00		NIST Webbook
rinpol	702.00		NIST Webbook
rinpol	695.00		NIST Webbook
rinpol	695.00		NIST Webbook
rinpol	701.00		NIST Webbook
ripol	1231.00		NIST Webbook
ripol	1266.00		NIST Webbook
ripol	1239.00		NIST Webbook
ripol	1218.00		NIST Webbook
ripol	1239.00		NIST Webbook
ripol	1246.00		NIST Webbook
tb	408.62	K	Isobaric vapor-liquid equilibrium data for methylcyclohexane + 2-methoxyethanol and methylcyclohexane + 2-ethoxyethanol at 50.00 and 101.33 kPa
tb	408.19	K	Vapour-liquid equilibrium and extractive distillation for separation of azeotrope isopropyl alcohol and diisopropyl ether
tb	407.80	K	Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System
tb	408.35	K	Isobaric Vapor Liquid Equilibrium of Binary and Ternary Systems with 2-Ethoxyethanol + Ethylbenzene + Dimethyl Sulfoxide
tc	568.04	K	Joback Method
tf	217.89	K	Joback Method
vc	0.296	m3/kmol	Joback Method
volm	9.74e-05	m3/mol	Excess Gibbs Energies of the Ternary System 2-Methoxyethanol + Tetrahydrofuran + Cyclohexane and Other Relevant Binaries at 298.15 K

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	154.66	J/mol×K	405.52	Joback Method
cpg	161.57	J/mol×K	432.61	Joback Method
cpg	168.30	J/mol×K	459.69	Joback Method
cpg	174.85	J/mol×K	486.78	Joback Method
cpg	181.21	J/mol×K	513.87	Joback Method
cpg	187.39	J/mol×K	540.95	Joback Method
cpg	193.38	J/mol×K	568.04	Joback Method
cpl	224.10	J/mol×K	333.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	204.60	J/mol×K	279.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	204.00	J/mol×K	277.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	216.50	J/mol×K	313.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	205.90	J/mol×K	283.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	206.60	J/mol×K	285.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	207.30	J/mol×K	287.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	208.00	J/mol×K	289.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	208.60	J/mol×K	291.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	209.30	J/mol×K	293.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	210.00	J/mol×K	295.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	210.70	J/mol×K	297.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	211.10	J/mol×K	298.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	

cpl	211.40	J/mol×K	299.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	212.10	J/mol×K	301.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	212.80	J/mol×K	303.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	213.60	J/mol×K	305.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	214.30	J/mol×K	307.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	215.00	J/mol×K	309.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	215.70	J/mol×K	311.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	203.30	J/mol×K	275.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	217.20	J/mol×K	315.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	218.00	J/mol×K	317.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	226.50	J/mol×K	339.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	219.50	J/mol×K	321.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	220.20	J/mol×K	323.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	221.00	J/mol×K	325.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	221.80	J/mol×K	327.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	222.60	J/mol×K	329.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	223.30	J/mol×K	331.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	210.80	J/mol×K	298.15	NIST Webbook
cpl	210.50	J/mol×K	298.15	NIST Webbook
cpl	209.82	J/mol×K	298.15	NIST Webbook
cpl	218.70	J/mol×K	319.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	225.70	J/mol×K	337.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	224.90	J/mol×K	335.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	205.30	J/mol×K	281.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

dvisc	0.0018480	Pa×s	298.15	Viscosities of binary mixtures of some n-ethoxyethanols with ethyl tert-butyl ether at T = (293.15, 298.15, and 303.15) K	
dvisc	0.0016460	Pa×s	303.15	Viscosities of binary mixtures of some n-ethoxyethanols with ethyl tert-butyl ether at T = (293.15, 298.15, and 303.15) K	
dvisc	0.0018500	Pa×s	298.15	Densities, Excess Molar Volumes, Viscosities, Speeds of Sound, Excess Isentropic Compressibilities, and Relative Permittivities for CmH2m+1(OCH2CH2)nOH (m) 1 or 2 or 4 andn) 1) + Benzene, + Toluene, + (o-, m-, and p-) Xylenes, + Ethylbenzene, and + Cyclohexane	
dvisc	0.0014070	Pa×s	308.15	Densities, Excess Molar Volumes, Viscosities, Speeds of Sound, Excess Isentropic Compressibilities, and Relative Permittivities for CmH2m+1(OCH2CH2)nOH (m) 1 or 2 or 4 andn) 1) + Benzene, + Toluene, + (o-, m-, and p-) Xylenes, + Ethylbenzene, and + Cyclohexane	

dvisc	0.0021420	Pa×s	293.15	Viscosities of binary mixtures of some n-ethoxyethanols with ethyl tert-butyl ether at T = (293.15, 298.15, and 303.15) K
hvapt	39.22	kJ/mol	408.10	NIST Webbook
hvapt	45.90	kJ/mol	338.00	NIST Webbook
hvapt	47.40	kJ/mol	347.50	NIST Webbook
hvapt	44.70	kJ/mol	372.00	NIST Webbook
pvap	1.83	kPa	313.15	Total Vapor Pressure Measurements for 2-Ethoxyethanol with Methyl Acetate, Ethyl Acetate, Propyl Acetate, and Ethyl Propionate at 313.15 K and for 2-Ethoxyethanol with Methyl Formate at 308.15 K
pvap	69.33	kPa	396.10	Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System
pvap	53.33	kPa	388.60	Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System
pvap	93.60	kPa	407.80	Estimation of Activity Coefficients for the Pairs of the System 2-Ethoxyethanol + 2-Ethoxyethyl Acetate + 2-Butoxyethanol + 2-Butoxyethyl Acetate

pvap	93.30	kPa	406.90	Estimation of Activity Coefficients for the Pairs of the System 2-Ethoxyethanol + 2-Ethoxyethyl Acetate + 2-Butoxyethanol + 2-Butoxyethyl Acetate	
pvap	93.30	kPa	406.20	Estimation of Activity Coefficients for the Pairs of the System 2-Ethoxyethanol + 2-Ethoxyethyl Acetate + 2-Butoxyethanol + 2-Butoxyethyl Acetate	
pvap	80.00	kPa	400.40	Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System	
pvap	8.65	kPa	343.15	Vapor-Liquid Equilibrium for Phenol + r-Methyl Benzyl Alcohol and 2-Ethoxyethanol + n-Butyl Formate	
pvap	5.30	kPa	333.15	Vapor-Liquid Equilibrium for Phenol + r-Methyl Benzyl Alcohol and 2-Ethoxyethanol + n-Butyl Formate	
pvap	85.33	kPa	402.30	Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System	

pvap	1.80	kPa	313.15	Total Vapor Pressure Measurements for 2-Ethoxyethanol with Methyl Acetate, Ethyl Acetate, Propyl Acetate, and Ethyl Propionate at 313.15 K and for 2-Ethoxyethanol with Methyl Formate at 308.15 K
pvap	1.86	kPa	313.15	Total Vapor Pressure Measurements for 2-Ethoxyethanol with Methyl Acetate, Ethyl Acetate, Propyl Acetate, and Ethyl Propionate at 313.15 K and for 2-Ethoxyethanol with Methyl Formate at 308.15 K
pvap	1.30	kPa	308.15	Total Vapor Pressure Measurements for 2-Ethoxyethanol with Methyl Acetate, Ethyl Acetate, Propyl Acetate, and Ethyl Propionate at 313.15 K and for 2-Ethoxyethanol with Methyl Formate at 308.15 K
pvap	95.30	kPa	406.33	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	88.70	kPa	404.22	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols

pvap	81.20	kPa	401.65	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	76.40	kPa	399.90	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	60.50	kPa	393.37	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	53.70	kPa	390.12	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	47.90	kPa	387.06	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	41.30	kPa	383.18	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	90.66	kPa	404.20	Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System
pvap	34.20	kPa	378.36	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	28.10	kPa	373.48	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols

pvap	100.93	kPa	407.50	Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System
pvap	101.33	kPa	407.80	Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System
pvap	100.93	kPa	407.80	Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System
pvap	68.60	kPa	396.86	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	13.62	kPa	353.15	Vapor-Liquid Equilibrium for Phenol + r-Methyl Benzyl Alcohol and 2-Ethoxyethanol + n-Butyl Formate
rfi	1.40650		303.15	Densities, Viscosities, Sound Speeds, Refractive Indices, and Excess Properties of Binary Mixtures of Isoamyl Alcohol with Some Alkoxyethanols
rfi	1.40650		293.15	Solubilities of (2,5-Dihydroxyphenyl)diphenyl Phosphine Oxide in Selected Solvents
rfi	1.40650		293.15	Solubilities of 2-(6-Oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)-1,4-dihydroxy Phenylene in the Selected Solvents
rfi	1.40650		293.15	Solubilities of Phosphorus-Containing Compounds in Selected Solvents

rfi	1.40570		298.15	Volumetric and viscometric study of aqueous binary mixtures of some glycol ethers at T = (275.15 and 283.15) K
rfi	1.40580		298.15	Thermodynamic and optical studies of some ethylene glycol ethers in aqueous solutions at T = 298.15 K
rfi	1.40620		298.15	Phase equilibria involved in extractive distillation of dipropyl ether + 1-propyl alcohol using 2-ethoxyethanol as entrainer
rhol	899.90	kg/m3	328.15	Thermophysical properties of glycols and glymes
rhol	861.20	kg/m3	368.15	Thermophysical properties of glycols and glymes
rhol	856.30	kg/m3	373.15	Thermophysical properties of glycols and glymes
rhol	941.20	kg/m3	283.15	Thermophysical properties of glycols and glymes
rhol	936.70	kg/m3	288.15	Thermophysical properties of glycols and glymes
rhol	932.20	kg/m3	293.15	Thermophysical properties of glycols and glymes
rhol	927.60	kg/m3	298.15	Thermophysical properties of glycols and glymes
rhol	923.10	kg/m3	303.15	Thermophysical properties of glycols and glymes
rhol	918.50	kg/m3	308.15	Thermophysical properties of glycols and glymes

rhol	913.80	kg/m3	313.15	Thermophysical properties of glycols and glymes
rhol	904.50	kg/m3	323.15	Thermophysical properties of glycols and glymes
rhol	895.00	kg/m3	333.15	Thermophysical properties of glycols and glymes
rhol	885.20	kg/m3	343.15	Thermophysical properties of glycols and glymes
rhol	929.50	kg/m3	293.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	925.00	kg/m3	298.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	920.50	kg/m3	303.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K

rhol	915.90	kg/m3	308.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	911.30	kg/m3	313.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	906.60	kg/m3	318.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	901.90	kg/m3	323.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K

rhol	897.20	kg/m3	328.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	892.40	kg/m3	333.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	887.60	kg/m3	338.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	882.70	kg/m3	343.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K

rhol	877.80	kg/m3	348.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	872.80	kg/m3	353.15	Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K
rhol	916.00	kg/m3	308.50	Excess Molar Enthalpies and Hydrogen Bonding in Binary Mixtures Containing Ethers and Benzyl Alcohol at 308.15 K and Atmospheric Pressure
rhol	927.70	kg/m3	298.15	Thermophysical properties of glycols and glymes
rhol	866.10	kg/m3	363.15	Thermophysical properties of glycols and glymes
rhol	871.00	kg/m3	358.15	Thermophysical properties of glycols and glymes
rhol	875.80	kg/m3	353.15	Thermophysical properties of glycols and glymes
rhol	904.60	kg/m3	323.15	Thermophysical properties of glycols and glymes
rhol	885.50	kg/m3	343.15	Thermophysical properties of glycols and glymes

rhol	890.40	kg/m3	338.15	Thermophysical properties of glycols and glymes
rhol	909.30	kg/m3	318.15	Thermophysical properties of glycols and glymes
rhol	913.90	kg/m3	313.15	Thermophysical properties of glycols and glymes
rhol	918.50	kg/m3	308.15	Thermophysical properties of glycols and glymes
rhol	923.10	kg/m3	303.15	Thermophysical properties of glycols and glymes
rhol	925.64	kg/m3	298.15	Thermodynamic properties and sPC-SAFT modeling of 2-ethoxyethanol, 2-propoxyethanol and 2-butoxyethanol from T = (293.15-413.15) K and pressure up to 30 MPa
rhol	932.30	kg/m3	293.15	Thermophysical properties of glycols and glymes
rhol	936.80	kg/m3	288.15	Thermophysical properties of glycols and glymes
rhol	903.45	kg/m3	323.15	Intermolecular interactions in Formamide +2-Alkoxyethanols: Viscometric study
rhol	907.76	kg/m3	318.15	Intermolecular interactions in Formamide +2-Alkoxyethanols: Viscometric study
rhol	911.58	kg/m3	313.15	Intermolecular interactions in Formamide +2-Alkoxyethanols: Viscometric study
rhol	916.43	kg/m3	308.15	Intermolecular interactions in Formamide +2-Alkoxyethanols: Viscometric study

rhol	921.19	kg/m3	303.15	Intermolecular interactions in Formamide +2-Alkoxyethanols: Viscometric study
rhol	907.00	kg/m3	318.15	An experimental investigation of molecular interactions between [Emim][triflate] ionic liquid & 2-alkoxyethanols and theoretical comparison by PFP theory
rhol	912.00	kg/m3	313.15	An experimental investigation of molecular interactions between [Emim][triflate] ionic liquid & 2-alkoxyethanols and theoretical comparison by PFP theory
rhol	917.00	kg/m3	308.15	An experimental investigation of molecular interactions between [Emim][triflate] ionic liquid & 2-alkoxyethanols and theoretical comparison by PFP theory
rhol	895.10	kg/m3	333.15	Thermophysical properties of glycols and glymes
rhol	926.00	kg/m3	298.15	An experimental investigation of molecular interactions between [Emim][triflate] ionic liquid & 2-alkoxyethanols and theoretical comparison by PFP theory
rhol	892.60	kg/m3	333.15	Solubility of N2O and CO2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation

rhol	897.40	kg/m3	328.15	Solubility of N2O and CO2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation	
rhol	902.10	kg/m3	323.15	Solubility of N2O and CO2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation	
rhol	906.80	kg/m3	318.15	Solubility of N2O and CO2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation	
rhol	911.50	kg/m3	313.15	Solubility of N2O and CO2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation	
rhol	916.10	kg/m3	308.15	Solubility of N2O and CO2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation	
rhol	920.70	kg/m3	303.15	Solubility of N2O and CO2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation	
rhol	925.20	kg/m3	298.15	Solubility of N2O and CO2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation	

rhol	929.70	kg/m3	293.15	Solubility of N2O and CO2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation
rhol	902.46	kg/m3	323.15	Study of molecular interactions of binary mixtures DEC with alkoxyalkanols at various temperatures
rhol	907.15	kg/m3	318.15	Study of molecular interactions of binary mixtures DEC with alkoxyalkanols at various temperatures
rhol	911.80	kg/m3	313.15	Study of molecular interactions of binary mixtures DEC with alkoxyalkanols at various temperatures
rhol	916.41	kg/m3	308.15	Study of molecular interactions of binary mixtures DEC with alkoxyalkanols at various temperatures
rhol	920.99	kg/m3	303.15	Study of molecular interactions of binary mixtures DEC with alkoxyalkanols at various temperatures
rhol	925.54	kg/m3	298.15	Study of molecular interactions of binary mixtures DEC with alkoxyalkanols at various temperatures

rhol	906.90	kg/m3	318.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols
rhol	911.47	kg/m3	313.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols
rhol	916.11	kg/m3	308.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols
rhol	920.72	kg/m3	303.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols
rhol	925.36	kg/m3	298.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols
rhol	924.92	kg/m3	298.15	Excess molar enthalpies and volumes of binary mixtures of nonafluorobutylmethylether with ethylene glycol ethers at T = 298.15 K

rhol	929.70	kg/m3	293.15	Viscosity of aqueous solutions of 2-methoxyethanol, 2-ethoxyethanol, and ethanolamine
rhol	921.00	kg/m3	303.15	An experimental investigation of molecular interactions between [Emim][triflate] ionic liquid & 2-alkoxyethanols and theoretical comparison by PFP theory
rhol	925.10	kg/m3	298.10	Excess enthalpies of binary mixtures of 2-ethoxyethanol with four hydrocarbons at 298.15, 308.15, and 318.15K An experimental and theoretical study
rhol	880.70	kg/m3	348.15	Thermophysical properties of glycols and glymes
speedsl	1235.10	m/s	318.15	Densities, speed of sound, and IR studies of Ethyl lactate with 2-alkoxyethanols at different temperatures
speedsl	1252.00	m/s	313.15	Densities, speed of sound, and IR studies of Ethyl lactate with 2-alkoxyethanols at different temperatures
speedsl	1268.00	m/s	308.15	Densities, speed of sound, and IR studies of Ethyl lactate with 2-alkoxyethanols at different temperatures
speedsl	1287.10	m/s	303.15	Densities, speed of sound, and IR studies of Ethyl lactate with 2-alkoxyethanols at different temperatures

speedsl	1224.90	m/s	323.15	Acoustic, volumetric, and spectroscopic studies of formamide with 2-alkoxyethanols at different temperatures
speedsl	1257.30	m/s	313.15	Acoustic, volumetric, and spectroscopic studies of formamide with 2-alkoxyethanols at different temperatures
speedsl	1290.40	m/s	303.15	Acoustic, volumetric, and spectroscopic studies of formamide with 2-alkoxyethanols at different temperatures

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.73172e+01
Coeff. B	-4.91675e+03
Coeff. C	-2.11200e+01
Temperature range (K), min.	309.84
Temperature range (K), max.	430.65

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
293.15	20000.00	0.0024170
293.15	40000.00	0.0027760

293.15	60000.00	0.0031450
293.15	80000.00	0.0035090
293.15	100000.00	0.0038590
303.15	20000.00	0.0019220
303.15	40000.00	0.0022100
303.15	60000.00	0.0025120
303.15	80000.00	0.0028160
303.15	100000.00	0.0031150
313.15	20000.00	0.0015990
313.15	40000.00	0.0018340
313.15	60000.00	0.0020710
313.15	80000.00	0.0023080
313.15	100000.00	0.0025430
323.15	20000.00	0.0013200
323.15	40000.00	0.0015290
323.15	60000.00	0.0017430
323.15	80000.00	0.0019310
323.15	100000.00	0.0021300
333.15	20000.00	0.0010810
333.15	40000.00	0.0012360
333.15	60000.00	0.0014080
333.15	80000.00	0.0015920
333.15	100000.00	0.0017870
343.15	20000.00	0.0009390
343.15	40000.00	0.0010780
343.15	60000.00	0.0012210
343.15	80000.00	0.0013620
343.15	100000.00	0.0015000
353.15	20000.00	0.0008290
353.15	40000.00	0.0009530
353.15	60000.00	0.0010680
353.15	80000.00	0.0011720
353.15	100000.00	0.0012650

Reference *https://www.doi.org/10.1016/j.fluid.2005.02.009*

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
293.15	100.00	929.6
293.15	5000.00	932.9

293.15	10000.00	936.2
293.15	15000.00	939.3
293.15	20000.00	942.4
293.15	25000.00	945.2
293.15	30000.00	948.2
293.15	35000.00	951.1
293.15	40000.00	953.7
293.15	45000.00	956.5
293.15	50000.00	959.0
293.15	55000.00	961.6
293.15	60000.00	964.0
303.15	100.00	920.7
303.15	5000.00	924.0
303.15	10000.00	927.4
303.15	15000.00	930.7
303.15	20000.00	933.9
303.15	25000.00	937.0
303.15	30000.00	939.9
303.15	35000.00	942.9
303.15	40000.00	945.8
303.15	45000.00	948.6
303.15	50000.00	951.3
303.15	55000.00	953.8
303.15	60000.00	956.3
313.15	100.00	911.3
313.15	5000.00	914.9
313.15	10000.00	918.5
313.15	15000.00	922.1
313.15	20000.00	925.5
313.15	25000.00	928.7
313.15	30000.00	931.8
313.15	35000.00	934.9
313.15	40000.00	937.8
313.15	45000.00	940.7
313.15	50000.00	943.4
313.15	55000.00	946.1
313.15	60000.00	948.9
323.15	100.00	901.8
323.15	5000.00	905.8
323.15	10000.00	909.7
323.15	15000.00	913.4
323.15	20000.00	916.9
323.15	25000.00	920.3
323.15	30000.00	923.6

323.15	35000.00	926.9
323.15	40000.00	930.0
323.15	45000.00	933.0
323.15	50000.00	935.7
323.15	55000.00	938.7
323.15	60000.00	941.4
333.15	100.00	892.3
333.15	5000.00	896.5
333.15	10000.00	900.5
333.15	15000.00	904.5
333.15	20000.00	908.2
333.15	25000.00	911.8
333.15	30000.00	915.4
333.15	35000.00	918.7
333.15	40000.00	921.8
333.15	45000.00	925.0
333.15	50000.00	927.9
333.15	55000.00	931.1
333.15	60000.00	933.9
343.15	100.00	882.6
343.15	5000.00	887.2
343.15	10000.00	891.4
343.15	15000.00	895.6
343.15	20000.00	899.4
343.15	25000.00	903.4
343.15	30000.00	906.9
343.15	35000.00	910.5
343.15	40000.00	913.8
343.15	45000.00	917.2
343.15	50000.00	920.4
343.15	55000.00	923.4
343.15	60000.00	926.5
353.15	100.00	872.6
353.15	5000.00	877.6
353.15	10000.00	882.0
353.15	15000.00	886.5
353.15	20000.00	890.6
353.15	25000.00	894.8
353.15	30000.00	898.5
353.15	35000.00	902.0
353.15	40000.00	905.9
353.15	45000.00	908.8
353.15	50000.00	912.5
353.15	55000.00	915.7

353.15	60000.00	918.7

Reference https://www.doi.org/10.1021/je049929f

Sources

Solubilities of Phosphorus-Containing Compounds in Selected Solvents:	https://www.doi.org/10.1021/je100341q
Intermolecular interactions in Formamide +2-Alkoxyethanols: Viscometric study:	https://www.doi.org/10.1016/j.tca.2012.03.001
Thermodynamic properties and sPC-SAFT modeling of 2-ethoxyethanol, 2-propoxyethanol and 2-butoxyethanol from T = (298.15-413.15) K and pressure up to 30 MPa:	https://www.doi.org/10.1016/j.fluid.2017.10.027
Solid-Liquid Equilibrium Solubility, Thermodynamic Properties, and Molecular Simulation of Phenylphosphonic Acid in 15 Pure Solvents at Different Temperatures:	https://www.doi.org/10.1021/acs.jced.9b00362
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm):	https://www.doi.org/10.1021/acs.jced.5b00051
Solubilities of (2,5-Dihydroxyphenyl)diphenyl Phosphine Oxide in Selected Solvents:	https://www.doi.org/10.1021/je900730w
Excess enthalpies of binary mixtures of 2-ethoxyethanol with four hydrocarbons at 298.15, 308.15, and 318.15K An experimental and theoretical study:	https://www.doi.org/10.1016/j.fluid.2006.04.016
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Solubilities of Diphenylphosphinic Acid in Selected Solvents:	https://www.doi.org/10.1021/je800049b
Measurement and correlation of the solubility of 4,4'-oxydianiline in different organic solvents:	https://www.doi.org/10.1016/j.fluid.2013.07.010
Isobaric vapor-liquid equilibrium data for methylcyclohexane + 2-methoxyethanol and methylcyclohexane + 2-ethoxyethanol at 50.00 and 101.33 kPa:	https://www.doi.org/10.1016/j.fluid.2014.07.041
Excess Molar Enthalpies and Hydrogen Bonding in Binary Mixtures Containing [illegible] and Benzyl Alcohol at 308.15 K and Atmospheric Pressure:	https://www.doi.org/10.1021/je0504212
Solubility of 4-Chloro-2,5-dimethoxynitrobenzene, 4-Chloro-2,5-dimethoxyaniline, and 2,5-Dimethoxyaniline in Binary and Pure Solvents: Determination and Modeling:	https://www.doi.org/10.1021/acs.jced.9b00011
Densities, speed of sound, and IR studies of Ethyl lactate with 2-alkoxyethanols at different temperatures:	https://www.doi.org/10.1016/j.tca.2015.09.021
Thermodynamic and optical studies of some ethylene glycol ethers in aqueous solutions at T = 298.15 K:	https://www.doi.org/10.1016/j.jct.2009.01.010
Solid-Liquid Equilibrium of Rebaudioside A in Pure and Binary Mixed Solvents at T = (283.15 to 328.15) K:	https://www.doi.org/10.1021/acs.jced.8b00780
High-Pressure Volumetric Properties of Three Monoethylene Glycol Alkyl Ethers:	https://www.doi.org/10.1021/je049929f
Solubility of CO2 in Alcohols, Glycols, Ethers, and Ketones at High Pressures from (288.15 to 318.15) K:	https://www.doi.org/10.1021/je101344v
Solubilities of Phenylphosphinic Acid, Methylphenylphosphinic Acid, Hexachlorocyclotriphosphazene, and Hexaphenoxycyclotriphosphazene in Selected Solvents:	https://www.doi.org/10.1021/je1009812
An experimental investigation of molecular interactions between [illegible] ionic liquid & 2-alkoxyethanols and theoretical comparison by PFP theory:	https://www.doi.org/10.1016/j.jct.2019.05.023
Acoustic, volumetric, and spectroscopic studies of formamide with 2-alkoxyethanols at different temperatures:	https://www.doi.org/10.1016/j.jct.2012.04.024
Excess molar enthalpies and volumes of binary mixtures of nonafluorobutylmethylether with ethylene glycol ethers at T = 298.15 K:	https://www.doi.org/10.1016/j.jct.2005.02.011
Study of molecular interactions of binary mixtures DEC with alkoxyalkanols at various temperatures:	https://www.doi.org/10.1016/j.jct.2016.11.002
Vapor Liquid Equilibrium for the 2-Ethoxyethanol 2-Ethoxyethyl Acetate System:	https://www.doi.org/10.1021/je300202z
Phase equilibria involved in extractive distillation of dipropyl ether + 1-propyl alcohol using 2-ethoxyethanol as entrainer:	https://www.doi.org/10.1016/j.fluid.2007.03.030
Viscosity of aqueous solutions of 2-methoxyethanol, 2-ethoxyethanol, and ethanolamine:	https://www.doi.org/10.1016/j.jct.2004.06.004
Solubility of disodium 4,4'-dinitrobibenzyl-2,2'-disulfonate in aqueous organic solutions and its effects on the oxidation reaction of DSD acid synthesis:	https://www.doi.org/10.1016/j.fluid.2016.07.028
Solubility of disodium 4,4'-dinitrostilbene-2,2'-disulfonate and sodium 4-nitrotoluene-2-sulfonate in aqueous organic solutions and its application feasibility in oxidation stage of DSD acid synthesis:	https://www.doi.org/10.1016/j.jct.2013.11.007
Vapor-liquid equilibria and excess molar volumes of [illegible] with 2-alkoxyethanols:	https://www.doi.org/10.1016/j.fluid.2012.08.030
Densities, Viscosities, Sound Speeds, Refractive Indices, and Excess Properties of Binary Mixtures of Isoamyl Alcohol with Some Alkoxyethanols:	https://www.doi.org/10.1007/s10765-010-0719-7
Density, Viscosity, Refractive Index, and Ultrasonic Speeds of Binary Mixtures of 1,3-Dioxolane with 2-Methoxyethanol, 2-Ethoxyethanol, 2-Butoxyethanol, 2-Propylamine, and Cyclohexylamine:	https://www.doi.org/10.1021/je900240s
Excess Gibbs Energies of the Ternary System 2-Methoxyethanol + Tetrahydrofuran + Cyclohexane and Other Relevant Binaries at 298.15 K :	https://www.doi.org/10.1021/je100556t
Phase Compositions and Saturated Densities for the Binary System of Carbon Dioxide with 2-ethoxyethanol:	https://www.doi.org/10.1016/j.fluid.2005.10.005
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Influence of the molecular structure on the viscosity of some alkoxyethanols:	https://www.doi.org/10.1016/j.fluid.2005.02.009
Total Vapor Pressure Measurements for 2-Ethoxyethanol with Carbon Tetrachloride, Chloroform, and Dichloromethane at 303.15 K:	https://www.doi.org/10.1021/je0341530
Isobaric Vapor Liquid Equilibrium of Binary and Ternary Systems with 2-Ethoxyethanol + Ethylbenzene + Dimethyl Sulfoxide:	https://www.doi.org/10.1021/je4006739
FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols:	https://www.doi.org/10.1016/j.jct.2015.08.040
Volumetric and viscometric study of aqueous binary mixtures of some glycol ethers at T = (275.15 and 283.15) K:	https://www.doi.org/10.1016/j.jct.2011.07.008
Thermophysical properties of glycols and glymes:	https://www.doi.org/10.1021/acs.jced.5b00662
Total Vapor Pressure Measurements for 2-Ethoxyethanol with Methyl Acetate, Ethyl Acetate, Propyl Acetate, and Ethyl Propionate at 313.15 K and for 2-Ethoxyethanol with Methyl Formate at 303.15 K:	https://www.doi.org/10.1021/je0255628
Selection of entrainers for the separation of the binary azeotropic system methanol + dimethyl carbonate by extractive distillation:	https://www.doi.org/10.1016/j.fluid.2011.08.007
Vapor-Liquid Equilibrium for Phenol + r-Methyl Benzyl Alcohol and 2-Ethoxyethanol + n-Butyl Formate:	https://www.doi.org/10.1021/je025566c
Solid-Liquid Equilibria of Dibenzothiophene and Dibenzothiophene Sulfone in Organic Solvents:	https://www.doi.org/10.1021/je700234e
Solubilities of 2-(6-Oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)-1,4-dihydroxy Phenylene in the Selected Solvents:	https://www.doi.org/10.1021/je700404u
Densities, Excess Molar Volumes, Viscosities, Speeds of Sound, Excess Isentropic Compressibilities, and Relative Permittivities for $C_mH_{2m+1}(OCH_2CH_2)_nOH$ (m) 1 or 2 or 4 and n) 1) + Benzene, + Toluene, + (o-, m-, and p-) Xylenes, + Ethylbenzene, and + Cyclohexane:	https://www.doi.org/10.1021/je034005y
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Viscosities of binary mixtures of some n-ethoxyethanols with ethyl tert-butyl ether at T = (293.15, 298.15 and 303.15) K:	https://www.doi.org/10.1016/j.jct.2007.01.010
Estimation of Activity Coefficients for the Pairs of the System 2-Ethoxyethanol + 2-Ethoxyethyl Acetate + 2-Butoxyethanol + 2-Butoxyethyl Acetate:	https://www.doi.org/10.1021/je200565u
Vapour-liquid equilibrium and extractive distillation for separation of azeotrope isopropyl alcohol and diisopropyl ether:	https://www.doi.org/10.1016/j.jct.2018.11.013
Solubility of N_2O and CO_2 in non-aqueous systems of monoethanolamine and glycol ethers: Measurements and model representation:	https://www.doi.org/10.1016/j.jct.2019.05.017
Density, Viscosity, and Excess Properties of Binary Mixtures of 2-(Methylamino)ethanol with 2-Methoxyethanol, 2-Ethoxyethanol, and 2-Butoxyethanol from 293.15 to 353.15 K:	https://www.doi.org/10.1021/acs.jced.9b00364
Solubility Determination and Modeling of HCCC Peracetate in 12 Pure Solvents at Temperatures from 278.15 to 318.15 K:	https://www.doi.org/10.1021/acs.jced.9b00428
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Conductance Studies of NaCl, KCl, NaBr, NaI, $NaBPh_4$, and Bu_4NI in Water + 2-Ethoxyethanol Mixtures at 298.15 K:	https://www.doi.org/10.1021/je9006184
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C110805&Units=SI
Deduction of Physicochemical Properties from Solubilities: 2,4-Dihydroxybenzophenone, Biotin, and Caprolactam as Examples:	https://www.doi.org/10.1021/je501140p

Legend

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
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
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

rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume
volm:	Molar Volume