Ethanol, 2-butoxy-

Other names:

.beta.-butoxyethanol
1,2-ethanediol, butyl ether
1,2-ethanediol, monobutyl ether
2-Butossi-etanolo
2-Butoxy-1-ethanol
2-Butoxy-aethanol
2-Butoxyethan-1-ol
2-Butoxyethanol
2-Hydroxyethyl n-butyl ether
2-butoxyethanol (butyl cellosolve)
2-n-Butoxy-1-ethanol
2-n-Butoxyethanol
3-Oxa-1-heptanol
BuCs
Butoksyetylowy alkohol
Butoxyethanol
Butyglycol
Butyl 2-hydroxyethyl ether
Butyl Cellu-Sol
Butyl cellosolve
Butyl glycol
Butyl icinol
Butyl monoether glycol
Butyl oxitol
Butylcelosolv
Chimec NR
Dowanol EB
EGBE
Ektasolve EB
Ektasolve EB solvent
Ether alcohol
Ethylene glycol butyl ether
Ethylene glycol mono-n-butyl ether
Ethylene glycol monobutyl ether
Ethylene glycol n-butyl ether
Gafcol EB
Glycol butyl ether
Glycol ether EB
Glycol ether eb acetate
Glycol monobutyl ether

	Jeffersol EB
	Minex BDH
	Monobutyl ether of ethylene glycol
	Monobutyl glycol ether
	NSC 60759
	O-Butyl ethylene glycol
	Poly-Solv EB
	UN 2369
	n-Butoxyethanol
	n-Butyl cellosolve
	«beta»-Butoxyethanol
	Â«betaÂ»-Butoxyethanol
Inchi:	InChI=1S/C6H14O2/c1-2-3-5-8-6-4-7/h7H,2-6H2,1H3
InchiKey:	POAOYUHQDCAZBD-UHFFFAOYSA-N
Formula:	C6H14O2
SMILES:	CCCCOCCO
Mol. weight [g/mol]:	118.17
CAS:	111-76-2

Physical Properties

Property code	Value	Unit	Source
gf	-242.18	kJ/mol	Joback Method
hf	-451.62	kJ/mol	Joback Method
hfus	16.57	kJ/mol	Joback Method
hvap	56.59	kJ/mol	NIST Webbook
log10ws	-0.42		Aqueous Solubility Prediction Method
log10ws	-0.42		Estimated Solubility Method
logp	0.795		Crippen Method
mcvol	107.140	ml/mol	McGowan Method
pc	3270.00 ± 20.00	kPa	NIST Webbook
rhoc	278.89 ± 5.91	kg/m3	NIST Webbook
rinpol	905.00		NIST Webbook
rinpol	891.00		NIST Webbook
rinpol	898.60		NIST Webbook
rinpol	907.00		NIST Webbook
rinpol	884.40		NIST Webbook
rinpol	904.50		NIST Webbook
rinpol	904.00		NIST Webbook

rinpol	904.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	909.00	NIST Webbook
rinpol	911.60	NIST Webbook
rinpol	887.00	NIST Webbook
rinpol	887.00	NIST Webbook
rinpol	898.00	NIST Webbook
rinpol	885.00	NIST Webbook
rinpol	908.00	NIST Webbook
rinpol	905.00	NIST Webbook
rinpol	906.00	NIST Webbook
rinpol	900.00	NIST Webbook
rinpol	903.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	904.00	NIST Webbook
rinpol	905.00	NIST Webbook
rinpol	904.00	NIST Webbook
rinpol	899.00	NIST Webbook
rinpol	909.30	NIST Webbook
rinpol	901.00	NIST Webbook
rinpol	910.00	NIST Webbook
rinpol	936.00	NIST Webbook
rinpol	909.00	NIST Webbook
rinpol	907.00	NIST Webbook
rinpol	907.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	907.00	NIST Webbook
rinpol	904.50	NIST Webbook
rinpol	905.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	909.30	NIST Webbook
rinpol	911.60	NIST Webbook
rinpol	887.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	900.00	NIST Webbook
ripol	1403.00	NIST Webbook
ripol	1405.00	NIST Webbook
ripol	1389.00	NIST Webbook
ripol	1361.00	NIST Webbook
ripol	1393.00	NIST Webbook
ripol	1391.00	NIST Webbook

ripol	1426.00	NIST Webbook
ripol	1391.00	NIST Webbook
ripol	1429.70	NIST Webbook
ripol	1447.00	NIST Webbook
ripol	1404.00	NIST Webbook
ripol	1413.00	NIST Webbook
ripol	1395.00	NIST Webbook
ripol	1395.00	NIST Webbook
ripol	1404.00	NIST Webbook
ripol	1379.00	NIST Webbook
ripol	1411.00	NIST Webbook
ripol	1411.00	NIST Webbook
ripol	1405.00	NIST Webbook
ripol	1410.00	NIST Webbook
ripol	1406.00	NIST Webbook
ripol	1406.00	NIST Webbook
ripol	1435.00	NIST Webbook
ripol	1430.00	NIST Webbook
ripol	1399.00	NIST Webbook
ripol	1402.00	NIST Webbook
ripol	1455.00	NIST Webbook
ripol	1407.00	NIST Webbook
ripol	1441.00	NIST Webbook
ripol	1371.00	NIST Webbook
ripol	1379.00	NIST Webbook
ripol	1385.00	NIST Webbook
ripol	1397.00	NIST Webbook
ripol	1418.00	NIST Webbook
ripol	1419.00	NIST Webbook
ripol	1402.00	NIST Webbook
ripol	1404.00	NIST Webbook
ripol	1371.00	NIST Webbook
ripol	1433.00	NIST Webbook
ripol	1391.00	NIST Webbook
ripol	1395.00	NIST Webbook
ripol	1408.00	NIST Webbook
ripol	1391.00	NIST Webbook
ripol	1403.00	NIST Webbook
ripol	1406.00	NIST Webbook
ripol	1402.00	NIST Webbook
ripol	1416.00	NIST Webbook
ripol	1405.00	NIST Webbook
ripol	1426.00	NIST Webbook
ripol	1416.00	NIST Webbook

ripol	1411.00		NIST Webbook
ripol	1407.00		NIST Webbook
ripol	1397.00		NIST Webbook
ripol	1371.00		NIST Webbook
ripol	1392.00		NIST Webbook
ripol	1413.00		NIST Webbook
tb	444.30 ± 0.70	K	NIST Webbook
tb	442.60 ± 0.50	K	NIST Webbook
tb	444.20	K	NIST Webbook
tb	444.35	K	NIST Webbook
tc	633.90 ± 1.20	K	NIST Webbook
tc	633.90 ± 1.00	K	NIST Webbook
tf	196.88	K	Aqueous Solubility Prediction Method
tf	202.75	K	NIST Webbook
vc	0.408	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.19	J/mol×K	451.28	Joback Method
cpg	282.03	J/mol×K	612.56	Joback Method
cpg	274.10	J/mol×K	585.68	Joback Method
cpg	265.89	J/mol×K	558.80	Joback Method
cpg	257.39	J/mol×K	531.92	Joback Method
cpg	248.61	J/mol×K	505.04	Joback Method
cpg	239.54	J/mol×K	478.16	Joback Method
cpl	271.50	J/mol×K	295.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	273.30	J/mol×K	298.15	NIST Webbook
cpl	273.10	J/mol×K	298.15	NIST Webbook
cpl	270.60	J/mol×K	298.15	NIST Webbook
cpl	293.60	J/mol×K	339.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	292.60	J/mol×K	337.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	291.60	J/mol×K	335.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	290.60	J/mol×K	333.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	289.60	J/mol×K	331.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	288.50	J/mol×K	329.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	287.50	J/mol×K	327.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	286.50	J/mol×K	325.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	285.50	J/mol×K	323.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	284.50	J/mol×K	321.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	283.50	J/mol×K	319.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	281.50	J/mol×K	315.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	280.50	J/mol×K	313.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	279.50	J/mol×K	311.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	278.50	J/mol×K	309.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	

cpl	277.50	J/mol×K	307.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	276.50	J/mol×K	305.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	265.60	J/mol×K	283.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	275.50	J/mol×K	303.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	274.50	J/mol×K	301.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	273.00	J/mol×K	298.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	272.50	J/mol×K	297.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	261.70	J/mol×K	275.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	262.60	J/mol×K	277.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	263.60	J/mol×K	279.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	264.60	J/mol×K	281.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	273.50	J/mol×K	299.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	266.60	J/mol×K	285.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	267.60	J/mol×K	287.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	

cpl	268.50	J/mol×K	289.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	269.50	J/mol×K	291.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	270.50	J/mol×K	293.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	282.50	J/mol×K	317.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
dvisc	0.0022064	Pa×s	308.15	Conductance Studies of Tetrabutylammonium Bromide, Sodium Bromide, and Sodium Tetraphenylborate in 2-Butoxyethanol (1) + Water (2) Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0027817	Pa×s	298.15	Conductance Studies of Tetrabutylammonium Bromide, Sodium Bromide, and Sodium Tetraphenylborate in 2-Butoxyethanol (1) + Water (2) Mixtures at (298.15, 303.15, 308.15, and 313.15) K

dvisc	0.0024993	Pa×s	303.15	Conductance Studies of Tetrabutylammonium Bromide, Sodium Bromide, and Sodium Tetraphenylborate in 2-Butoxyethanol (1) + Water (2) Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0019459	Pa×s	313.15	Conductance Studies of Tetrabutylammonium Bromide, Sodium Bromide, and Sodium Tetraphenylborate in 2-Butoxyethanol (1) + Water (2) Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0027820	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	0.0022060	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
hfust	11.80	kJ/mol	199.50	NIST Webbook
hvapt	51.20	kJ/mol	372.50	NIST Webbook
hvapt	49.50	kJ/mol	389.50	NIST Webbook
hvapt	52.60	kJ/mol	389.50	NIST Webbook
pvap	34.20	kPa	412.10	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	93.60	kPa	441.50	Estimation of Activity Coefficients for the Pairs of the System 2-Ethoxyethanol + 2-Ethoxyethyl Acetate + 2-Butoxyethanol + 2-Butoxyethyl Acetate
pvap	93.90	kPa	441.30	Estimation of Activity Coefficients for the Pairs of the System 2-Ethoxyethanol + 2-Ethoxyethyl Acetate + 2-Butoxyethanol + 2-Butoxyethyl Acetate
pvap	95.30	kPa	442.49	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols

pvap	88.70	kPa	440.20	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	94.10	kPa	442.10	Estimation of Activity Coefficients for the Pairs of the System 2-Ethoxyethanol + 2-Ethoxyethyl Acetate + 2-Butoxyethanol + 2-Butoxyethyl Acetate
pvap	76.40	kPa	435.52	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	68.60	kPa	432.22	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	60.50	kPa	428.43	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	53.70	kPa	424.90	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	47.90	kPa	421.57	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	41.30	kPa	417.35	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols

pvap	81.20	kPa	437.42	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	28.10	kPa	406.80	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
rfi	1.42260		283.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures
rfi	1.40701		323.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures
rfi	1.41139		313.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures
rfi	1.41570		303.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures
rfi	1.41960		293.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures

rfi	1.41500		303.15	Densities, Viscosities, Sound Speeds, Refractive Indices, and Excess Properties of Binary Mixtures of Isoamyl Alcohol with Some Alkoxyethanols	
rfi	1.41710		298.15	Density, Speed of Sound, and Refractive Index of Aqueous Binary Mixtures of Some Glycol Ethers at T = 298.15 K	
rhol	896.31	kg/m3	298.15	Thermodynamic and spectral investigations of binary liquid mixturesof 2-butoxy ethanol with alcohols at temperature range of 293.15-313.15 K	
rhol	896.46	kg/m3	298.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols	
rhol	892.22	kg/m3	303.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols	
rhol	887.97	kg/m3	308.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols	

rhol	883.70	kg/m3	313.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols
rhol	879.42	kg/m3	318.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols
rhol	896.16	kg/m3	298.15	Experimental study on the calorimetric data of 2-butoxyethanol with aliphatic alcohols (C1-C4) and correlation with the Wilson, NRTL and UNIQUAC models at T = 298 K
rhol	900.40	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	896.20	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	892.00	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	887.80	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	883.50	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	879.20	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	874.90	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	870.60	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	866.20	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	861.80	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	857.30	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	852.80	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	848.30	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	896.16	kg/m3	298.15	Electrical Conductance of Some Tetraalkylammonium Bromide Salts in 2-Butoxyethanol (1) + Water (2) mixtures at (298.15, 303.15, 308.15, and 313.15) K
rhol	896.25	kg/m3	298.15	Excess molar enthalpies and volumes of binary mixtures of nonafluorobutylmethylether with ethylene glycol ethers at T = 298.15 K

rhol	896.17	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	883.80	kg/m3	313.15	Liquid liquid equilibria for the ternary system water + octane + 2-butyloxy-ethanol	
rhol	900.64	kg/m3	293.15	Liquid liquid equilibria for the ternary system water + octane + 2-butyloxy-ethanol	
rhol	896.31	kg/m3	298.15	Thermodynamic, transport and excess properties of 2-butoxy ethanol +1-alkanol (C6,C8,C10) at different temperatures	
speedsl	1285.00	m/s	308.15	Densities, Excess Molar Volumes at T = (298.15 to 313.15) K, Speeds of Sound, Excess Isentropic Compressibilities, Relative Permittivities and Deviations in Molar Polarizations at T = (298.15 and 308.15) K for Methyl Methacrylate + 2-Butoxyethanol or + Dibutyl Ether + Benzene, + Toluene and + p-Xylene	

speedsl	1304.00	m/s	298.15	Densities, Excess Molar Volumes at T = (298.15 to 313.15) K, Speeds of Sound, Excess Isentropic Compressibilities, Relative Permittivities and Deviations in Molar Polarizations at T = (298.15 and 308.15) K for Methyl Methacrylate + 2-Butoxyethanol or + Dibutyl Ether + Benzene, + Toluene and + p-Xylene
speedsl	1242.10	m/s	318.15	Densities, speed of sound, and IR studies of Ethyl lactate with 2-alkoxyethanols at different temperatures
speedsl	1259.00	m/s	313.15	Densities, speed of sound, and IR studies of Ethyl lactate with 2-alkoxyethanols at different temperatures
speedsl	1275.00	m/s	308.15	Densities, speed of sound, and IR studies of Ethyl lactate with 2-alkoxyethanols at different temperatures
speedsl	1288.50	m/s	303.15	Densities, speed of sound, and IR studies of Ethyl lactate with 2-alkoxyethanols at different temperatures
tcondl	0.12	W/m×K	373.84	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase

tcondl	0.13	W/m×K	363.59	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase
tcondl	0.13	W/m×K	333.98	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase
tcondl	0.13	W/m×K	344.05	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase
tcondl	0.14	W/m×K	283.96	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase
tcondl	0.13	W/m×K	323.88	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase
tcondl	0.13	W/m×K	314.25	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase
tcondl	0.14	W/m×K	303.56	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase

tcondl	0.14	W/m×K	293.67	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase
tcondl	0.13	W/m×K	354.63	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	444.20	K	99.10	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.63176e+01
Coeff. B	-4.43972e+03
Coeff. C	-6.47130e+01
Temperature range (K), min.	341.68
Temperature range (K), max.	468.10

Datasets

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid

283.15	100.00	907.9
283.15	1000.00	908.3
283.15	3000.00	909.9
283.15	5000.00	911.0
283.15	10000.00	914.2
283.15	15000.00	917.1
283.15	20000.00	920.0
283.15	25000.00	922.8
283.15	30000.00	925.6
283.15	35000.00	928.4
283.15	40000.00	930.9
283.15	50000.00	935.7
283.15	60000.00	940.5
293.15	100.00	900.5
293.15	1000.00	900.6
293.15	3000.00	902.2
293.15	5000.00	903.2
293.15	10000.00	906.8
293.15	15000.00	910.0
293.15	20000.00	912.9
293.15	25000.00	915.9
293.15	30000.00	918.8
293.15	35000.00	921.4
293.15	40000.00	924.0
293.15	50000.00	929.5
293.15	60000.00	933.9
303.15	100.00	891.8
303.15	1000.00	892.1
303.15	3000.00	893.9
303.15	5000.00	895.4
303.15	10000.00	898.9
303.15	15000.00	902.0
303.15	20000.00	905.5
303.15	25000.00	908.7
303.15	30000.00	911.8
303.15	35000.00	914.5
303.15	40000.00	916.7
303.15	50000.00	921.8
303.15	60000.00	927.1
313.15	100.00	883.5
313.15	1000.00	884.0
313.15	3000.00	885.6
313.15	5000.00	887.1
313.15	10000.00	890.7

313.15	15000.00	894.1
313.15	20000.00	897.3
313.15	25000.00	900.7
313.15	30000.00	903.6
313.15	35000.00	906.7
313.15	40000.00	909.4
313.15	50000.00	915.1
313.15	60000.00	920.1
323.15	100.00	874.0
323.15	1000.00	875.0
323.15	3000.00	876.5
323.15	5000.00	878.1
323.15	10000.00	881.9
323.15	15000.00	885.5
323.15	20000.00	889.1
323.15	25000.00	892.1
323.15	30000.00	895.4
323.15	35000.00	898.5
323.15	40000.00	901.6
323.15	50000.00	907.3
323.15	60000.00	912.9
333.15	100.00	865.6
333.15	1000.00	866.1
333.15	3000.00	868.0
333.15	5000.00	869.5
333.15	10000.00	873.5
333.15	15000.00	877.3
333.15	20000.00	880.9
333.15	25000.00	884.4
333.15	30000.00	887.6
333.15	35000.00	890.8
333.15	40000.00	894.0
333.15	50000.00	900.1
333.15	60000.00	905.7
343.15	100.00	856.5
343.15	1000.00	857.4
343.15	3000.00	859.3
343.15	5000.00	861.1
343.15	10000.00	865.1
343.15	15000.00	869.1
343.15	20000.00	873.2
343.15	25000.00	876.5
343.15	30000.00	880.1
343.15	35000.00	883.5

343.15	40000.00	886.7
343.15	50000.00	893.0
343.15	60000.00	898.6
353.15	100.00	847.5
353.15	1000.00	848.4
353.15	3000.00	850.5
353.15	5000.00	852.2
353.15	10000.00	856.7
353.15	15000.00	860.9
353.15	20000.00	864.8
353.15	25000.00	868.7
353.15	30000.00	872.3
353.15	35000.00	875.9
353.15	40000.00	879.2
353.15	50000.00	885.6
353.15	60000.00	891.8
363.15	100.00	838.2
363.15	1000.00	839.4
363.15	3000.00	841.4
363.15	5000.00	843.4
363.15	10000.00	847.9
363.15	15000.00	852.6
363.15	20000.00	856.4
363.15	25000.00	860.4
363.15	30000.00	864.4
363.15	35000.00	868.1
363.15	40000.00	871.8
363.15	50000.00	878.4
363.15	60000.00	884.8

Reference *https://www.doi.org/10.1021/acs.jced.6b00192*

Thermal conductivity, W/m/K

Temperature, K - Liquid	Pressure, kPa - Liquid	Thermal conductivity, W/m/K - Liquid
304.15	100.00	0.1529
304.15	16400.00	0.1579
304.15	27300.00	0.1612
304.15	41800.00	0.1646
304.15	56100.00	0.1689
304.15	70200.00	0.1722

304.15	79000.00	0.1740
304.15	83500.00	0.1749
304.15	98200.00	0.1785
304.15	112200.00	0.1820
304.15	124100.00	0.1836
304.15	140100.00	0.1870
304.15	149200.00	0.1885
304.15	100.00	0.1533
321.15	100.00	0.1497
321.15	16400.00	0.1548
321.15	27300.00	0.1585
321.15	41800.00	0.1628
321.15	56100.00	0.1665
321.15	70200.00	0.1701
321.15	84200.00	0.1739
321.15	98200.00	0.1770
321.15	112200.00	0.1800
321.15	126200.00	0.1830
321.15	134900.00	0.1851
321.15	150600.00	0.1879
321.15	100.00	0.1496
338.15	100.00	0.1461
338.15	16400.00	0.1518
338.15	27300.00	0.1555
338.15	41800.00	0.1601
338.15	56100.00	0.1640
338.15	70200.00	0.1677
338.15	84200.00	0.1717
338.15	98200.00	0.1751
338.15	108700.00	0.1775
338.15	123400.00	0.1807
338.15	140100.00	0.1844
338.15	100.00	0.1463

Reference *https://www.doi.org/10.1021/je1007197*

Sources

Solubilities of 4',5,7-Triacetoxyflavanone in Fourteen Organic Solvents at Different Temperatures:	https://www.doi.org/10.1021/acs.jced.6b00929
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C111762&Units=SI
Experimental study on the calorimetric data of 2-butoxyethanol with aliphatic alcohols (C1-C4) and correlation with the Wilson, NRTL and UNIQUAC models at T = 298 K:	https://www.doi.org/10.1016/j.jct.2016.08.003

Conductance Studies of Tetrabutylammonium Bromide, Sodium Bromide, and Sodium Tetraphenylborate in 2-Butoxyethanol + Water (2) Mixtures at (298.15, 308.15, and 313.15) K:	https://www.doi.org/10.1021/je300737t
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Liquid-liquid equilibria for the ternary system water + octane + 2-butoxyethanol:	https://www.doi.org/10.1016/j.fluid.2015.04.019
Effect of organic additives on volumetric and viscosity properties of amino acids in aqueous solutions at T = (283.15 to 333.15) K:	https://www.doi.org/10.1016/j.jct.2011.12.020
Macrogol Method:	http://link.springer.com/article/10.1007/BF02311772
Solubility of disodium 4,4'-dinitrostilbene-2,2'-disulfonate and Sodium 4-nitrotoluene-2-sulfonate in containing nanionic surfactant	https://www.doi.org/10.1016/j.jct.2013.11.007
Phase equilibria for mixtures	https://www.doi.org/10.1016/j.jct.2008.02.016
Density, Viscosity, Refractive Index, and Ultrasonic Speed of Binary Mixtures of 1,3-Dioxolane with	https://www.doi.org/10.1021/je900240s
Thermodynamic Properties and Vapor–Liquid Equilibria and Excess	https://www.doi.org/10.1021/acs.jced.9b00362
Densities, Viscosities, Sound Speeds, Refractive Indices, and Excess	https://www.doi.org/10.1016/j.fluid.2012.08.030
Properties of Binary Mixtures of	https://www.doi.org/10.1007/s10765-010-0719-7
Thermodynamic and spectral investigations of binary liquid	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Densities, Excess Molar Volumes at T =	https://www.doi.org/10.1016/j.fluid.2013.06.021
Determination of Henry's Law	https://www.doi.org/10.1021/je034022n
Relative Permittivities and Deviations	https://www.doi.org/10.1021/je3010535
Refractive Index of Aqueous Binary	https://www.doi.org/10.1021/je901072c
Densities, Speeds of Sound, Excess Isentropic Compressibilities, and Relative Permittivities for	https://www.doi.org/10.1016/j.tca.2015.09.021
Solubility of disodium 4,4'-dinitrostilbene-2,2'-disulfonate in	https://www.doi.org/10.1016/j.jct.2015.08.040
Estimated Solubility Method:	https://www.doi.org/10.1016/j.jct.2013.04.021
Correlation of Activity Coefficients for the Prediction of Solvent	https://www.doi.org/10.1021/je049818g
Solubility of Ethyl Acetate + 2-Butoxyethanol + Water from 278.15 to 328.15 K:	https://www.doi.org/10.1021/je900478c
Solubility of Ethyl Acetate + 2-Butoxyethanol + Water from 278.15 to 328.15 K:	https://www.doi.org/10.1016/j.fluid.2016.01.019
Solubility of Ethyl Acetate + 2-Butoxyethanol + Water from 278.15 to 328.15 K:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Densities, Excess Molar Volumes, Viscosities, Speeds of Sound, Excess Isentropic Compressibilities, and	https://www.doi.org/10.1021/je034005y
Solubility of disodium 4,4'-dinitrostilbene-2,2'-disulfonate in	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
Correlation of Activity Coefficients for the Prediction of Solvent	https://www.doi.org/10.1016/j.fluid.2016.07.028
Solubility of Ethyl Acetate + 2-Butoxyethanol + Water from 278.15 to 328.15 K:	https://www.doi.org/10.1021/je200565u
Solubility of Ethyl Acetate + 2-Butoxyethanol + Water from 278.15 to 328.15 K:	https://www.doi.org/10.1021/acs.jced.9b00428
Properties of Binary Mixtures of 2-Methoxyethanol + 2-Ethoxyethanol + 2-Butoxyethanol from 293.15 to	https://www.doi.org/10.1021/acs.jced.9b00364
Rebaudioside A in Pure and Binary Mixtures of 2-n-Butoxyethanol at	https://www.doi.org/10.1021/acs.jced.8b00780
Thermodynamic properties and sPC-SAFT modeling of	https://www.doi.org/10.1021/je1007197
Mutual Solubility and Lower Critical Solution Temperature for Water +	https://www.doi.org/10.1021/je060026r
Densities of Diethylene Glycol, Monobutyl Ether, Diethylene Glycol	https://www.doi.org/10.1016/j.fluid.2017.10.027
Excess molar enthalpies and volumes of binary mixtures of	https://www.doi.org/10.1021/je060229f
Electrical Conductance of Some Tetraalkylammonium Bromide Salts in	https://www.doi.org/10.1021/je049635u
Measurement and Prediction of Molar Heat Capacities of Liquid	https://www.doi.org/10.1021/acs.jced.6b00192
Polyoxyethylene Glycol Monoalkyl Ethers (CnEm):	https://www.doi.org/10.1016/j.jct.2005.02.011
	https://en.wikipedia.org/wiki/Joback_method
	https://www.doi.org/10.1021/je4004405
	https://www.doi.org/10.1021/acs.jced.5b00051

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
hfust:	Enthalpy of fusion at a given temperature
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
rhoc:	Critical density
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tcondl:	Liquid thermal conductivity
tf:	Normal melting (fusion) point
vc:	Critical Volume