

# Ethanol, 2-(2-ethoxyethoxy)-

**Other names:** (Ethoxyethoxy)ethanol  
1-Hydroxy-3,6-dioxaoctane  
2-(2'-ethoxyethoxy)ethanol  
2-(2-Ethoxyethoxy)ethanol  
2-(Ethoxyethoxy)ethanol  
2-(«beta»-Ethoxyethoxy)ethanol  
2-(«beta»-Ethoxyethoxy)ethanol diglycol  
2-(Â«betaÂ»-Ethoxyethoxy)ethanol  
2-(Â«betaÂ»-Ethoxyethoxy)ethanol diglycol  
2-2-Ethoxyethoxy;ethanol  
3,6-Dioxa-1-octanol  
3,6-Dioxa-1-oktanol  
3,6-Dioxaoctan-1-ol  
3-oxa-1,5-pentanediol, ethyl ether  
APV  
Carbitol  
Carbitol cellosolve  
Carbitol low gravity  
Carbitol solvent  
DEGEE  
DEGMEE  
Diethoxol  
Diethylene Glycol ethyl ether  
Diethylene glycol monoethyl ether  
Diethylene glycol monomethyl ether  
Diglycol  
Diglycol monoethyl ether  
Dioxitol  
Dioxitol-low gravity  
Dowanol  
Dowanol 17  
Dowanol DE  
Eastman DE  
Ehanol, 2,2'-oxybis-, monoethyl ether  
Ektasolve DE  
Ektasolve DE, DE-HG  
Ethanol, 2,2'-oxybis-, monoethyl ether  
Ethoxy diglycol  
Ethyl Di-Icinol  
Ethyl carbitol

Ethyl diethylene glycol  
 Ethyl digol  
 Ethyldiglycol  
 Ethylene diglycol monoethyl ether  
 Karbitol  
 Losungsmittel apv  
 Monoethyl ether of diethylene glycol  
 O-Ethyldigol  
 Poly-Solv  
 Poly-Solv DE  
 Poly-solv DE ethanol, 2,2'-oxybis-, monoethyl ether  
 Solvent APV Spec  
 Solvolsol  
 Transcutol  
 Transcutol P  
 diethylene glycol, ethyl ether  
 diethylene glycol, monoethyl ether  
 ethyldiethylene glycol

<b>Inchi:</b>	InChI=1S/C6H14O3/c1-2-8-5-6-9-4-3-7/h7H,2-6H2,1H3
<b>InchiKey:</b>	XXJWXESWEXIICW-UHFFFAOYSA-N
<b>Formula:</b>	C6H14O3
<b>SMILES:</b>	CCOCCOC
<b>Mol. weight [g/mol]:</b>	134.17
<b>CAS:</b>	111-90-0

## Physical Properties

Property code	Value	Unit	Source
gf	-347.18	kJ/mol	Joback Method
hf	-583.84	kJ/mol	Joback Method
hfus	17.76	kJ/mol	Joback Method
hvap	50.45	kJ/mol	Joback Method
log10ws	0.23		Crippen Method
logp	0.032		Crippen Method
mcvol	113.010	ml/mol	McGowan Method
pc	3167.00 ± 26.00	kPa	NIST Webbook
rinpol	985.00		NIST Webbook
rinpol	1003.00		NIST Webbook
rinpol	1007.00		NIST Webbook
rinpol	1009.10		NIST Webbook
rinpol	951.00		NIST Webbook

rinpol	999.00		NIST Webbook
rinpol	976.00		NIST Webbook
rinpol	1007.10		NIST Webbook
rinpol	982.90		NIST Webbook
rinpol	979.00		NIST Webbook
rinpol	982.90		NIST Webbook
rinpol	976.00		NIST Webbook
rinpol	1006.00		NIST Webbook
rinpol	986.00		NIST Webbook
rinpol	1001.00		NIST Webbook
rinpol	1006.00		NIST Webbook
rinpol	1011.00		NIST Webbook
rinpol	985.00		NIST Webbook
ripol	1619.00		NIST Webbook
ripol	1577.00		NIST Webbook
ripol	1579.00		NIST Webbook
ripol	1619.00		NIST Webbook
ripol	1615.00		NIST Webbook
ripol	1622.00		NIST Webbook
ripol	1636.00		NIST Webbook
ripol	1583.00		NIST Webbook
ripol	1628.00		NIST Webbook
ripol	1589.00		NIST Webbook
ripol	1589.00		NIST Webbook
tb	475.20	K	NIST Webbook
tb	468.00 ± 2.00	K	NIST Webbook
tc	670.00 ± 4.00	K	NIST Webbook
tf	262.66	K	Joback Method
vc	0.426	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.75	J/mol×K	554.37	Joback Method
cpg	261.94	J/mol×K	500.59	Joback Method
cpg	252.66	J/mol×K	473.70	Joback Method
cpg	288.27	J/mol×K	581.26	Joback Method
cpg	304.54	J/mol×K	635.03	Joback Method
cpg	296.54	J/mol×K	608.15	Joback Method
cpg	270.97	J/mol×K	527.48	Joback Method

cpl	311.20	J/mol×K	327.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	310.40	J/mol×K	325.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	309.70	J/mol×K	323.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	309.00	J/mol×K	321.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	308.20	J/mol×K	319.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	307.50	J/mol×K	317.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	306.90	J/mol×K	315.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	305.50	J/mol×K	311.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	304.90	J/mol×K	309.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	304.30	J/mol×K	307.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	303.70	J/mol×K	305.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	303.10	J/mol×K	303.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	302.50	J/mol×K	301.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	312.00	J/mol×K	329.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	301.70	J/mol×K	298.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	301.40	J/mol×K	297.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	300.90	J/mol×K	295.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	300.40	J/mol×K	293.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	299.40	J/mol×K	289.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	298.90	J/mol×K	287.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	298.50	J/mol×K	285.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	298.00	J/mol×K	283.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	297.60	J/mol×K	281.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	297.20	J/mol×K	279.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	296.80	J/mol×K	277.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	312.80	J/mol×K	331.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	296.50	J/mol×K	275.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	313.60	J/mol×K	333.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	299.90	J/mol×K	291.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	314.40	J/mol×K	335.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	315.20	J/mol×K	337.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	316.10	J/mol×K	339.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	301.90	J/mol×K	299.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	306.20	J/mol×K	313.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
dvisc	0.0044640	Paxs	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

dvisc	0.0035310	Paxs	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	0.0039760	Paxs	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
hvapt	52.10	kJ/mol	396.50	NIST Webbook
rfi	1.42500		298.15	Thermodynamic and optical studies of some ethylene glycol ethers in aqueous solutions at T = 298.15 K
rfi	1.42530		298.15	Density and refractive index in mixtures of ionic liquids and organic solvents: Correlations and predictions
rfi	1.42530		298.15	Volumetric and viscometric study of aqueous binary mixtures of some glycol ethers at T = (275.15 and 283.15) K
rhol	974.67	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	952.20	kg/m3	333.15	Thermophysical properties of glycols and glymes
rhol	961.30	kg/m3	323.15	Thermophysical properties of glycols and glymes

rhol	970.30	kg/m3	313.15	Thermophysical properties of glycols and glymes
rhol	965.33	kg/m3	318.15	Density, Speed of Sound, and Viscosity of Diethylene Glycol Monoethyl Ether + N,N-Dimethylformamide (Ethanol, Water) at T = 288.15-318.15 K
rhol	974.80	kg/m3	308.15	Thermophysical properties of glycols and glymes
rhol	979.30	kg/m3	303.15	Thermophysical properties of glycols and glymes
rhol	983.70	kg/m3	298.15	Thermophysical properties of glycols and glymes
rhol	988.20	kg/m3	293.15	Thermophysical properties of glycols and glymes
rhol	992.60	kg/m3	288.15	Thermophysical properties of glycols and glymes
rhol	997.10	kg/m3	283.15	Thermophysical properties of glycols and glymes
rhol	916.80	kg/m3	373.15	Thermophysical properties of glycols and glymes
rhol	921.40	kg/m3	368.15	Thermophysical properties of glycols and glymes
rhol	926.10	kg/m3	363.15	Thermophysical properties of glycols and glymes
rhol	930.70	kg/m3	358.15	Thermophysical properties of glycols and glymes
rhol	935.30	kg/m3	353.15	Thermophysical properties of glycols and glymes

rhol	943.10	kg/m3	343.15	Thermophysical properties of glycols and glymes
rhol	939.90	kg/m3	348.15	Thermophysical properties of glycols and glymes
rhol	944.40	kg/m3	343.15	Thermophysical properties of glycols and glymes
rhol	949.00	kg/m3	338.15	Thermophysical properties of glycols and glymes
rhol	953.50	kg/m3	333.15	Thermophysical properties of glycols and glymes
rhol	958.10	kg/m3	328.15	Thermophysical properties of glycols and glymes
rhol	962.50	kg/m3	323.15	Thermophysical properties of glycols and glymes
rhol	967.00	kg/m3	318.15	Thermophysical properties of glycols and glymes
rhol	971.50	kg/m3	313.15	Thermophysical properties of glycols and glymes
rhol	976.00	kg/m3	308.15	Thermophysical properties of glycols and glymes
rhol	980.40	kg/m3	303.15	Thermophysical properties of glycols and glymes
rhol	984.90	kg/m3	298.15	Thermophysical properties of glycols and glymes
rhol	989.40	kg/m3	293.15	Thermophysical properties of glycols and glymes
rhol	993.90	kg/m3	288.15	Thermophysical properties of glycols and glymes

rhol	992.17	kg/m3	288.15	Density, Speed of Sound, and Viscosity of Diethylene Glycol Monoethyl Ether + N,N-Dimethylformamide (Ethanol, Water) at T = 288.15-318.15 K
rhol	983.08	kg/m3	298.15	Density, Speed of Sound, and Viscosity of Diethylene Glycol Monoethyl Ether + N,N-Dimethylformamide (Ethanol, Water) at T = 288.15-318.15 K
rhol	974.27	kg/m3	308.15	Density, Speed of Sound, and Viscosity of Diethylene Glycol Monoethyl Ether + N,N-Dimethylformamide (Ethanol, Water) at T = 288.15-318.15 K
rhol	983.11	kg/m3	298.15	Density, Speed of Sound, and Viscosity of Diethylene Glycol Monoethyl Ether + N,N-Dimethylformamide (Ethanol, Water) at T = 288.15-318.15 K
rhol	974.18	kg/m3	308.15	Density, Speed of Sound, and Viscosity of Diethylene Glycol Monoethyl Ether + N,N-Dimethylformamide (Ethanol, Water) at T = 288.15-318.15 K
rhol	965.33	kg/m3	318.15	Density, Speed of Sound, and Viscosity of Diethylene Glycol Monoethyl Ether + N,N-Dimethylformamide (Ethanol, Water) at T = 288.15-318.15 K

rh <sub>ol</sub>	983.84	kg/m <sup>3</sup>	298.15	Speeds of Sound and Isentropic Compressibilities of n-Alkoxyethanols and Polyethers with Propylamine at 298.15K
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## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.63980e+01
Coeff. B	-5.15308e+03
Coeff. C	-3.75940e+01
Temperature range (K), min.	357.45
Temperature range (K), max.	502.40

## Datasets

### Mass density, kg/m<sup>3</sup>

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m <sup>3</sup> - Liquid
283.15	100.00	997.7
283.15	1000.00	998.2
283.15	2500.00	999.1
283.15	5000.00	1000.6
283.15	7500.00	1002.0
283.15	10000.00	1003.4
283.15	15000.00	1006.1
283.15	20000.00	1008.8
283.15	25000.00	1011.3
293.15	100.00	988.4
293.15	1000.00	988.9
293.15	2500.00	989.8
293.15	5000.00	991.3

293.15	7500.00	992.8
293.15	10000.00	994.3
293.15	15000.00	997.2
293.15	20000.00	999.9
293.15	25000.00	1002.6
303.15	100.00	979.5
303.15	1000.00	980.1
303.15	2500.00	981.1
303.15	5000.00	982.6
303.15	7500.00	984.2
303.15	10000.00	985.8
303.15	15000.00	988.8
303.15	20000.00	991.7
303.15	25000.00	994.6
313.15	100.00	970.6
313.15	1000.00	971.2
313.15	2500.00	972.2
313.15	5000.00	973.9
313.15	7500.00	975.5
313.15	10000.00	977.1
313.15	15000.00	980.3
313.15	20000.00	983.4
313.15	25000.00	986.3
323.15	100.00	961.5
323.15	1000.00	962.1
323.15	2500.00	963.2
323.15	5000.00	965.0
323.15	7500.00	966.8
323.15	10000.00	968.5
323.15	15000.00	971.9
323.15	20000.00	975.1
323.15	25000.00	978.2
333.15	100.00	952.4
333.15	1000.00	953.1
333.15	2500.00	954.3
333.15	5000.00	956.1
333.15	7500.00	958.0
333.15	10000.00	959.7
333.15	15000.00	963.2
333.15	20000.00	966.5
333.15	25000.00	969.8
343.15	100.00	943.4
343.15	1000.00	944.1
343.15	2500.00	945.3

343.15	5000.00	947.3
343.15	7500.00	949.2
343.15	10000.00	951.1
343.15	15000.00	954.8
343.15	20000.00	958.3
343.15	25000.00	961.6
353.15	100.00	934.1
353.15	1000.00	934.9
353.15	2500.00	936.1
353.15	5000.00	938.2
353.15	7500.00	940.2
353.15	10000.00	942.2
353.15	15000.00	946.0
353.15	20000.00	949.7
353.15	25000.00	953.2

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

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Solubility and thermodynamic function of a new anticancer drug ibrutinib in <b>N,N-Tetraethoxyethoxy)ethanol + water</b> mixtures at different temperatures: Speeds of Sound and Isentropic Compressibilities of n-Alkoxyethanols	<a href="https://www.doi.org/10.1016/j.jct.2015.04.014">https://www.doi.org/10.1016/j.jct.2015.04.014</a>
Viscosities of binary mixtures of some n-alkoxyethanols with ethyl tert-butyl ether at (293.15, 298.15, and 303.15) K: (4-Chlorophenyl)-2-(pyridin-4-ylcarbonyl)hydrazinecarbothioamide	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C111900&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C111900&amp;Units=SI</a>
Hydrochloride of Pure Hydrazin-N-Methylcarbamoylamine	<a href="https://www.doi.org/10.1016/j.jct.2007.01.010">https://www.doi.org/10.1016/j.jct.2007.01.010</a>
Hydrochloride of Pure Hydrazin-N-Methylcarbamoylamine	<a href="https://www.doi.org/10.1021/je500457p">https://www.doi.org/10.1021/je500457p</a>
Hydrochloride of Pure Hydrazin-N-Methylcarbamoylamine	<a href="https://www.doi.org/10.1021/je500154k">https://www.doi.org/10.1021/je500154k</a>
Hydrochloride of Pure Hydrazin-N-Methylcarbamoylamine	<a href="https://www.doi.org/10.1016/j.jct.2009.08.009">https://www.doi.org/10.1016/j.jct.2009.08.009</a>
Hydrochloride of Pure Hydrazin-N-Methylcarbamoylamine	<a href="https://www.doi.org/10.1021/je501036r">https://www.doi.org/10.1021/je501036r</a>
Hydrochloride of Pure Hydrazin-N-Methylcarbamoylamine	<a href="https://www.doi.org/10.1021/je501036r">https://www.doi.org/10.1021/je501036r</a>

## 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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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