

# 2-Butyl ethoxymethyl ether

<b>Other names:</b>	Methane, 2-butoxy-ethoxy Ethoxy-(2-butoxy)methane
<b>Inchi:</b>	InChI=1S/C7H16O2/c1-4-7(3)9-6-8-5-2/h7H,4-6H2,1-3H3
<b>InchiKey:</b>	WLCHNYQQRXSZER-UHFFFAOYSA-N
<b>Formula:</b>	C7H16O2
<b>SMILES:</b>	CCOCOC(C)CC
<b>Mol. weight [g/mol]:</b>	132.20

## Physical Properties

Property code	Value	Unit	Source
gf	-204.38	kJ/mol	Joback Method
hf	-457.53	kJ/mol	Joback Method
hfus	12.74	kJ/mol	Joback Method
hvap	35.61	kJ/mol	Joback Method
log10ws	-1.53		Crippen Method
logp	1.796		Crippen Method
mcvol	121.230	ml/mol	McGowan Method
pc	2724.01	kPa	Joback Method
rinpol	794.00		NIST Webbook
rinpol	826.00		NIST Webbook
rinpol	826.00		NIST Webbook
rinpol	803.00		NIST Webbook
ripol	992.00		NIST Webbook
tb	403.96	K	Joback Method
tc	572.52	K	Joback Method
tf	198.11	K	Joback Method
vc	0.458	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.30	J/molxK	403.96	Joback Method
cpg	253.90	J/molxK	432.05	Joback Method
cpg	265.20	J/molxK	460.15	Joback Method

cpg	276.21	J/molxK	488.24	Joback Method
cpg	286.90	J/molxK	516.33	Joback Method
cpg	297.29	J/molxK	544.43	Joback Method
cpg	307.36	J/molxK	572.52	Joback Method
dvisc	0.0047999	Paxs	198.11	Joback Method
dvisc	0.0018890	Paxs	232.42	Joback Method
dvisc	0.0009450	Paxs	266.73	Joback Method
dvisc	0.0005536	Paxs	301.04	Joback Method
dvisc	0.0003618	Paxs	335.34	Joback Method
dvisc	0.0002559	Paxs	369.65	Joback Method
dvisc	0.0001919	Paxs	403.96	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R143574&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R143574&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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