

# 1-Chloro-2-ethoxyethane

<b>Other names:</b>	2-Chloroethyl ethyl ether «beta»-Chloroethyl ethyl ether 2-Chlorodiethyl ether Ethane, 1-chloro-2-ethoxy- Ether, 2-chloroethyl ethyl 2-Chloroethoxyethane 2-Ethoxyethyl chloride Ethyl «beta»-chloroethyl ether
<b>Inchi:</b>	InChI=1S/C4H9ClO/c1-2-6-4-3-5/h2-4H2,1H3
<b>InchiKey:</b>	GPTVQTPMFOLLOA-UHFFFAOYSA-N
<b>Formula:</b>	C4H9ClO
<b>SMILES:</b>	CCOCCCl
<b>Mol. weight [g/mol]:</b>	108.57
<b>CAS:</b>	628-34-2

## Physical Properties

Property code	Value	Unit	Source
gf	-134.13	kJ/mol	Joback Method
hf	-297.10 ± 2.30	kJ/mol	NIST Webbook
hfl	-335.60 ± 2.30	kJ/mol	NIST Webbook
hfus	11.50	kJ/mol	Joback Method
hvap	34.00	kJ/mol	NIST Webbook
log10ws	-0.74		Crippen Method
logp	1.262		Crippen Method
mcvol	85.330	ml/mol	McGowan Method
pc	3646.53	kPa	Joback Method
rinpol	706.20		NIST Webbook
rinpol	706.00		NIST Webbook
rinpol	706.00		NIST Webbook
rinpol	704.90		NIST Webbook
tb	371.70 ± 0.60	K	NIST Webbook
tb	380.70	K	NIST Webbook
tc	524.29	K	Joback Method
tf	186.99	K	Joback Method
vc	0.327	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	139.39	J/molxK	350.77	Joback Method
cpg	173.37	J/molxK	495.37	Joback Method
cpg	166.96	J/molxK	466.45	Joback Method
cpg	160.36	J/molxK	437.53	Joback Method
cpg	153.56	J/molxK	408.61	Joback Method
cpg	146.57	J/molxK	379.69	Joback Method
cpg	179.58	J/molxK	524.29	Joback Method
dvisc	0.0002651	Paxs	350.77	Joback Method
dvisc	0.0003356	Paxs	323.47	Joback Method
dvisc	0.0004438	Paxs	296.18	Joback Method
dvisc	0.0006211	Paxs	268.88	Joback Method
dvisc	0.0009378	Paxs	241.58	Joback Method
dvisc	0.0015726	Paxs	214.29	Joback Method
dvisc	0.0030669	Paxs	186.99	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C628342&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C628342&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hfl:</b>	Liquid phase 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>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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