

# Ethane, 2-chloro-1-ethoxy-1-(2-methylpropyloxy)

Inchi: InChI=1S/C7H15ClO2/c1-4-9-7(5-8)10-6(2)3/h6-7H,4-5H2,1-3H3

InchiKey: VMYRWOTVRPQQAH-UHFFFAOYSA-N

Formula: C7H15ClO2

SMILES: CCOC(CCl)OC(C)C

Mol. weight [g/mol]: 166.65

## Physical Properties

Property code	Value	Unit	Source
gf	-218.75	kJ/mol	Joback Method
hf	-478.55	kJ/mol	Joback Method
hfus	13.41	kJ/mol	Joback Method
hvap	39.61	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	2.013		Crippen Method
mcvol	133.470	ml/mol	McGowan Method
pc	2643.39	kPa	Joback Method
rinpol	1040.00		NIST Webbook
tb	440.95	K	Joback Method
tc	620.31	K	Joback Method
tf	213.03	K	Joback Method
vc	0.500	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.46	J/mol×K	440.95	Joback Method
cpg	282.27	J/mol×K	470.84	Joback Method
cpg	293.72	J/mol×K	500.74	Joback Method
cpg	304.80	J/mol×K	530.63	Joback Method
cpg	315.51	J/mol×K	560.52	Joback Method
cpg	325.84	J/mol×K	590.42	Joback Method
cpg	335.78	J/mol×K	620.31	Joback Method
dvisc	0.0067627	Paxs	213.03	Joback Method
dvisc	0.0023959	Paxs	251.02	Joback Method

dvisc	0.0011151	Paxs	289.00	Joback Method
dvisc	0.0006199	Paxs	326.99	Joback Method
dvisc	0.0003894	Paxs	364.98	Joback Method
dvisc	0.0002670	Paxs	402.96	Joback Method
dvisc	0.0001954	Paxs	440.95	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R91066&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R91066&amp;Units=SI</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>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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