

# Ethane, 1-chloro-2-[(2-ethoxyethyl)thio]-

<b>Other names:</b>	(2-Chloroethylthio)ethyl ethyl ether
<b>Inchi:</b>	InChI=1S/C6H13ClOS/c1-2-8-4-6-9-5-3-7/h2-6H2,1H3
<b>InchiKey:</b>	UXYAOPOYEMOOHI-UHFFFAOYSA-N
<b>Formula:</b>	C6H13ClOS
<b>SMILES:</b>	CCOCCSCCCI
<b>Mol. weight [g/mol]:</b>	168.69
<b>CAS:</b>	114811-33-5

## Physical Properties

Property code	Value	Unit	Source
gf	-84.17	kJ/mol	Joback Method
hf	-273.26	kJ/mol	Joback Method
hfus	20.81	kJ/mol	Joback Method
hvap	42.56	kJ/mol	Joback Method
log10ws	-1.46		Crippen Method
logp	1.995		Crippen Method
mcvol	129.860	ml/mol	McGowan Method
pc	2982.79	kPa	Joback Method
rinpol	1169.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1169.00		NIST Webbook
rinpol	1169.00		NIST Webbook
tb	465.31	K	Joback Method
tc	660.22	K	Joback Method
tf	243.93	K	Joback Method
vc	0.492	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.05	J/mol×K	465.31	Joback Method
cpg	266.00	J/mol×K	497.79	Joback Method
cpg	276.55	J/mol×K	530.28	Joback Method
cpg	286.69	J/mol×K	562.76	Joback Method

cpg	296.42	J/mol×K	595.25	Joback Method
cpg	305.74	J/mol×K	627.73	Joback Method
cpg	314.65	J/mol×K	660.22	Joback Method

## Sources

<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=C114811335&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C114811335&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>mvol:</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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