

# (2-Chloroethylthio)ethyl vinyl ether

Inchi:	InChI=1S/C6H11CIOS/c1-2-8-4-6-9-5-3-7/h2H,1,3-6H2
InchiKey:	SVGMSAHTMWXTDT-UHFFFAOYSA-N
Formula:	C6H11CIOS
SMILES:	C=COCCSCCCI
Mol. weight [g/mol]:	166.67

## Physical Properties

Property code	Value	Unit	Source
gf	3.67	kJ/mol	Joback Method
hf	-147.83	kJ/mol	Joback Method
hfus	19.53	kJ/mol	Joback Method
hvap	41.89	kJ/mol	Joback Method
log10ws	-1.81		Crippen Method
logp	2.119		Crippen Method
mcvol	125.560	ml/mol	McGowan Method
pc	3124.49	kPa	Joback Method
rinpol	1185.00		NIST Webbook
rinpol	1222.80		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1222.70		NIST Webbook
tb	461.99	K	Joback Method
tc	661.11	K	Joback Method
tf	242.17	K	Joback Method
vc	0.473	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	238.49	J/molxK	461.99	Joback Method
cpg	248.73	J/molxK	495.18	Joback Method
cpg	258.54	J/molxK	528.36	Joback Method
cpg	267.95	J/molxK	561.55	Joback Method
cpg	276.93	J/molxK	594.73	Joback Method

cpg	285.51	J/mol×K	627.92	Joback Method
cpg	293.68	J/mol×K	661.11	Joback Method

## Sources

<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=R41481&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R41481&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>

## 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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