

# (2-Chloroethylthio)ethyl (vinylthio)ethyl ether

Inchi:	InChI=1S/C8H15ClOS2/c1-2-11-7-4-10-5-8-12-6-3-9/h2H,1,3-8H2
InchiKey:	SRBUGBCUCZNCIL-UHFFFAOYSA-N
Formula:	C8H15ClOS2
SMILES:	C=CSCCOCCSCCCI
Mol. weight [g/mol]:	226.79

## Physical Properties

Property code	Value	Unit	Source
gf	53.63	kJ/mol	Joback Method
hf	-147.24	kJ/mol	Joback Method
hfus	28.84	kJ/mol	Joback Method
hvap	53.16	kJ/mol	Joback Method
log10ws	-2.53		Crippen Method
logp	2.852		Crippen Method
mcvol	170.090	ml/mol	McGowan Method
pc	2592.49	kPa	Joback Method
rinpol	1661.00		NIST Webbook
rinpol	1714.10		NIST Webbook
rinpol	1661.00		NIST Webbook
rinpol	1714.10		NIST Webbook
tb	576.53	K	Joback Method
tc	789.24	K	Joback Method
tf	299.11	K	Joback Method
vc	0.639	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.61	J/molxK	576.53	Joback Method
cpg	385.51	J/molxK	611.98	Joback Method
cpg	397.74	J/molxK	647.43	Joback Method
cpg	409.31	J/molxK	682.88	Joback Method
cpg	420.22	J/molxK	718.34	Joback Method
cpg	430.48	J/molxK	753.79	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=R120259&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R120259&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>

## 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>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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