

# (2-Chloroethylthioethyl) (2-chloroethylthiopropyl) ether

Inchi:	InChI=1S/C9H18Cl2OS2/c1-9(14-6-3-11)8-12-4-7-13-5-2-10/h9H,2-8H2,1H3
InchiKey:	SSFZHVATVUJHDL-UHFFFAOYSA-N
Formula:	C9H18Cl2OS2
SMILES:	CC(COCCSCCCI)SCCCI
Mol. weight [g/mol]:	277.27

## Physical Properties

Property code	Value	Unit	Source
gf	-40.16	kJ/mol	Joback Method
hf	-314.33	kJ/mol	Joback Method
hfus	33.38	kJ/mol	Joback Method
hvap	60.05	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	3.336		Crippen Method
mvol	200.720	ml/mol	McGowan Method
pc	2202.08	kPa	Joback Method
rinpol	1930.00		NIST Webbook
rinpol	1930.00		NIST Webbook
tb	639.72	K	Joback Method
tc	852.74	K	Joback Method
tf	327.06	K	Joback Method
vc	0.757	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	468.37	J/molxK	639.72	Joback Method
cpg	482.20	J/molxK	675.22	Joback Method
cpg	495.25	J/molxK	710.73	Joback Method
cpg	507.51	J/molxK	746.23	Joback Method
cpg	518.99	J/molxK	781.74	Joback Method
cpg	529.69	J/molxK	817.24	Joback Method
cpg	539.60	J/molxK	852.74	Joback Method

# Sources

<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=R502304&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R502304&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvpap:</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>rinppl:</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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