

# (2-Chloroethylthiopropyl)-(2-chloroethylthioethyl)

Inchi:  
**Sulfide**

InChI=1S/C9H18Cl2S3/c1-9(14-5-3-11)8-13-7-6-12-4-2-10/h9H,2-8H2,1H3

InchiKey:

XMISXRLGQMFPZPP-UHFFFAOYSA-N

Formula:

C9H18Cl2S3

SMILES:

CC(CSCCSCCCI)SCCCI

Mol. weight [g/mol]:

293.34

## Physical Properties

Property code	Value	Unit	Source
gf	97.96	kJ/mol	Joback Method
hf	-140.24	kJ/mol	Joback Method
hfus	36.33	kJ/mol	Joback Method
hvap	64.46	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	4.052		Crippen Method
mvol	211.200	ml/mol	McGowan Method
pc	2274.07	kPa	Joback Method
rinpol	2252.00		NIST Webbook
rinpol	2252.00		NIST Webbook
tb	686.08	K	Joback Method
tc	917.66	K	Joback Method
tf	339.23	K	Joback Method
vc	0.793	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	495.34	J/mol×K	686.08	Joback Method
cpg	509.16	J/mol×K	724.68	Joback Method
cpg	522.02	J/mol×K	763.27	Joback Method
cpg	533.93	J/mol×K	801.87	Joback Method
cpg	544.90	J/mol×K	840.47	Joback Method
cpg	554.94	J/mol×K	879.07	Joback Method
cpg	564.06	J/mol×K	917.66	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R422996&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R422996&amp;Units=SI</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>hvp:</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>rinp:</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

Latest version available from:

<https://www.cheméo.com/cid/59-029-5/2-Chloroethylthiopropyl-2-chloroethylthioethyl-sulfide.pdf>

Generated by Cheméo on 2024-05-02 02:17:59.081040045 +0000 UTC m=+16905528.001617360.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.