

# Bis[(2-chloroethylthio)ethyl] sulfide

<b>Other names:</b>	bis-[(2-Chloroethylthio)ethyl] sulfide
<b>Inchi:</b>	InChI=1S/C8H16Cl2S3/c9-1-3-11-5-7-13-8-6-12-4-2-10/h1-8H2
<b>InchiKey:</b>	MINLWGQAHTUHFI-UHFFFAOYSA-N
<b>Formula:</b>	C8H16Cl2S3
<b>SMILES:</b>	CICCCSCCSCCSCCCI
<b>Mol. weight [g/mol]:</b>	279.31

## Physical Properties

Property code	Value	Unit	Source
gf	91.98	kJ/mol	Joback Method
hf	-114.32	kJ/mol	Joback Method
hfus	37.26	kJ/mol	Joback Method
hvap	62.62	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	3.664		Crippen Method
mcvol	197.110	ml/mol	McGowan Method
pc	2477.65	kPa	Joback Method
rinpol	2141.00		NIST Webbook
rinpol	2141.00		NIST Webbook
rinpol	2222.00		NIST Webbook
rinpol	2216.00		NIST Webbook
rinpol	2216.00		NIST Webbook
rinpol	2141.00		NIST Webbook
tb	663.64	K	Joback Method
tc	895.12	K	Joback Method
tf	342.96	K	Joback Method
vc	0.744	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	444.51	J/molxK	663.64	Joback Method
cpg	457.42	J/molxK	702.22	Joback Method
cpg	469.46	J/molxK	740.80	Joback Method

cpg	480.64	J/mol×K	779.38	Joback Method
cpg	490.96	J/mol×K	817.96	Joback Method
cpg	500.44	J/mol×K	856.54	Joback Method
cpg	509.08	J/mol×K	895.12	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360307&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360307&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>rinpolar:</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.chemeo.com/cid/116-218-1/Bis-2-chloroethyltyio-ethyl-sulfide.pdf>

Generated by Cheméo on 2024-04-30 20:57:47.113983488 +0000 UTC m=+16799916.034560799.

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