

# Sulfide, bis(2-chloropropyl)

<b>Other names:</b>	Bis(2-chloropropyl)sulfide (-)-«alpha», «alpha»'-Dimethyl-«beta», «beta»'-bischloroethyl sulfide Propane, 1,1'-thiobis(2-chloro- TL 293 Propane, 2-chloro-3-(2-chloropropylthio)-
<b>Inchi:</b>	InChI=1S/C6H12Cl2S/c1-5(7)3-9-4-6(2)8/h5-6H,3-4H2,1-2H3
<b>InchiKey:</b>	AQHTWLYIOSPNMG-UHFFFAOYSA-N
<b>Formula:</b>	C6H12Cl2S
<b>SMILES:</b>	CC(Cl)CSCC(C)Cl
<b>Mol. weight [g/mol]:</b>	187.13
<b>CAS:</b>	22535-54-2

## Physical Properties

Property code	Value	Unit	Source
gf	4.02	kJ/mol	Joback Method
hf	-167.34	kJ/mol	Joback Method
hfus	16.77	kJ/mol	Joback Method
hvap	43.76	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.974		Crippen Method
mcvol	136.230	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
tb	479.44	K	Joback Method
tc	691.09	K	Joback Method
tf	221.62	K	Joback Method
vc	0.511	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.36	J/mol×K	479.44	Joback Method
cpg	269.74	J/mol×K	514.71	Joback Method
cpg	280.54	J/mol×K	549.99	Joback Method
cpg	290.78	J/mol×K	585.26	Joback Method

cpg	300.46	J/mol×K	620.54	Joback Method
cpg	309.60	J/mol×K	655.81	Joback Method
cpg	318.21	J/mol×K	691.09	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.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=C22535542&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22535542&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>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>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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