

# Bis(1-methyl thio)propyl disulfide

<b>Inchi:</b>	InChI=1S/C8H18S4/c1-5-7(9-3)11-12-8(6-2)10-4/h7-8H,5-6H2,1-4H3
<b>InchiKey:</b>	LHVBQVQKDUZOIJ-UHFFFAOYSA-N
<b>Formula:</b>	C8H18S4
<b>SMILES:</b>	CCC(SC)SSC(CC)SC
<b>Mol. weight [g/mol]:</b>	242.49

## Physical Properties

Property code	Value	Unit	Source
gf	144.08	kJ/mol	Joback Method
hf	-51.53	kJ/mol	Joback Method
hfus	25.95	kJ/mol	Joback Method
hvap	59.89	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	4.566		Crippen Method
mcvol	188.980	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
rinsol	1426.00		NIST Webbook
tb	656.68	K	Joback Method
tc	909.52	K	Joback Method
tf	287.52	K	Joback Method
vc	0.688	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	446.70	J/mol×K	656.68	Joback Method
cpg	462.17	J/mol×K	698.82	Joback Method
cpg	476.53	J/mol×K	740.96	Joback Method
cpg	489.75	J/mol×K	783.10	Joback Method
cpg	501.84	J/mol×K	825.24	Joback Method
cpg	512.76	J/mol×K	867.38	Joback Method
cpg	522.53	J/mol×K	909.52	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R415884&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R415884&amp;Units=SI</a>
<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>

# 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>mccvol:</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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