

# Bis(2-diisopropylaminoethyl) sulfide

<b>Other names:</b>	Sulfane, bis(2-diisopropylaminoethyl)-
<b>Inchi:</b>	InChI=1S/C16H36N2S/c1-13(2)17(14(3)4)9-11-19-12-10-18(15(5)6)16(7)8/h13-16H,9-12
<b>InchiKey:</b>	VRSFIFVYZVUBLG-UHFFFAOYSA-N
<b>Formula:</b>	C16H36N2S
<b>SMILES:</b>	CC(C)N(CCSCCN(C(C)C)C(C)C)C(C)C
<b>Mol. weight [g/mol]:</b>	288.54
<b>CAS:</b>	110501-56-9

## Physical Properties

Property code	Value	Unit	Source
gf	328.76	kJ/mol	Joback Method
hf	-217.76	kJ/mol	Joback Method
hfus	33.28	kJ/mol	Joback Method
hvap	60.56	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.957		Crippen Method
mcvol	272.610	ml/mol	McGowan Method
pc	1362.64	kPa	Joback Method
rinpol	1820.00		NIST Webbook
rinpol	1836.10		NIST Webbook
rinpol	1820.00		NIST Webbook
rinpol	1836.10		NIST Webbook
rinpol	1820.00		NIST Webbook
tb	657.38	K	Joback Method
tc	839.15	K	Joback Method
tf	309.42	K	Joback Method
vc	0.998	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	768.79	J/molxK	657.38	Joback Method
cpg	789.68	J/molxK	687.67	Joback Method
cpg	809.50	J/molxK	717.97	Joback Method

cpg	828.29	J/mol×K	748.26	Joback Method
cpg	846.09	J/mol×K	778.56	Joback Method
cpg	862.94	J/mol×K	808.85	Joback Method
cpg	878.86	J/mol×K	839.15	Joback Method

## Sources

<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=C110501569&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C110501569&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>

## 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>rinpola:</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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