

# Bis(2-diethylaminoethyl) sulfide

<b>Other names:</b>	2,2'-Thiodi(ethanamine), N,N,N',N'-tetraethyl-
<b>Inchi:</b>	InChI=1S/C12H28N2S/c1-5-13(6-2)9-11-15-12-10-14(7-3)8-4/h5-12H2,1-4H3
<b>InchiKey:</b>	LYFNBXZVKYDWNX-UHFFFAOYSA-N
<b>Formula:</b>	C12H28N2S
<b>SMILES:</b>	CCN(CC)CCSCCN(CC)CC
<b>Mol. weight [g/mol]:</b>	232.43
<b>CAS:</b>	6006-58-2

## Physical Properties

Property code	Value	Unit	Source
gf	304.84	kJ/mol	Joback Method
hf	-114.08	kJ/mol	Joback Method
hfus	37.01	kJ/mol	Joback Method
hvap	53.21	kJ/mol	Joback Method
log10ws	-1.87		Crippen Method
logp	2.403		Crippen Method
mcvol	216.250	ml/mol	McGowan Method
pc	1800.03	kPa	Joback Method
rinpol	1584.00		NIST Webbook
rinpol	1584.00		NIST Webbook
rinpol	1584.00		NIST Webbook
rinpol	1584.00		NIST Webbook
rinpol	1597.00		NIST Webbook
rinpol	1579.00		NIST Webbook
tb	567.62	K	Joback Method
tc	742.69	K	Joback Method
tf	324.34	K	Joback Method
vc	0.797	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	547.39	J/molxK	567.62	Joback Method
cpg	565.49	J/molxK	596.80	Joback Method

cpg	582.74	J/mol×K	625.98	Joback Method
cpg	599.18	J/mol×K	655.16	Joback Method
cpg	614.83	J/mol×K	684.33	Joback Method
cpg	629.72	J/mol×K	713.51	Joback Method
cpg	643.87	J/mol×K	742.69	Joback Method

## Sources

<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=C6006582&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6006582&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>

## 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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