

# Ethane, 1,2-bis-(2-diethylamonoethylthio)

<b>Other names:</b>	Ethane, 1,2-bis-(2-diethylaminoethylthio)
<b>Inchi:</b>	InChI=1S/C14H32N2S2/c1-5-15(6-2)9-11-17-13-14-18-12-10-16(7-3)8-4/h5-14H2,1-4H3
<b>InchiKey:</b>	VUBCXWHBJHMDBK-UHFFFAOYSA-N
<b>Formula:</b>	C14H32N2S2
<b>SMILES:</b>	CCN(CC)CCSCCSCCN(CC)CC
<b>Mol. weight [g/mol]:</b>	292.55

## Physical Properties

Property code	Value	Unit	Source
gf	354.80	kJ/mol	Joback Method
hf	-113.49	kJ/mol	Joback Method
hfus	46.32	kJ/mol	Joback Method
hvap	64.48	kJ/mol	Joback Method
log10ws	-2.59		Crippen Method
logp	3.136		Crippen Method
mcvol	260.780	ml/mol	McGowan Method
pc	1559.81	kPa	Joback Method
rinpol	2018.00		NIST Webbook
rinpol	2018.00		NIST Webbook
rinpol	2021.00		NIST Webbook
rinpol	2021.00		NIST Webbook
rinpol	2021.00		NIST Webbook
tb	682.16	K	Joback Method
tc	869.45	K	Joback Method
tf	381.28	K	Joback Method
vc	0.964	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	724.13	J/molxK	682.16	Joback Method
cpg	742.68	J/molxK	713.38	Joback Method
cpg	760.25	J/molxK	744.59	Joback Method
cpg	776.85	J/molxK	775.81	Joback Method

cpg	792.53	J/mol×K	807.02	Joback Method
cpg	807.32	J/mol×K	838.24	Joback Method
cpg	821.24	J/mol×K	869.45	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=R334859&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R334859&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>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

Latest version available from:

<https://www.chemeo.com/cid/58-400-3/Ethane-1-2-bis-2-diethylamonoethylthio.pdf>

Generated by Cheméo on 2024-04-29 10:25:16.706688516 +0000 UTC m=+16675565.627265826.

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