

# 2-Aminoethylethyl sulfide

<b>Other names:</b>	2-[Ethylthio]ethylamonium 2-(Ethylthio)ethanamine
<b>Inchi:</b>	InChI=1S/C4H11NS/c1-2-6-4-3-5/h2-5H2,1H3
<b>InchiKey:</b>	HJCTVUWPHAZTLI-UHFFFAOYSA-N
<b>Formula:</b>	C4H11NS
<b>SMILES:</b>	CCSCCN
<b>Mol. weight [g/mol]:</b>	105.20
<b>CAS:</b>	36489-03-9

## Physical Properties

Property code	Value	Unit	Source
gf	82.37	kJ/mol	Joback Method
hf	-50.23	kJ/mol	Joback Method
hfus	15.44	kJ/mol	Joback Method
hvap	41.96	kJ/mol	Joback Method
log10ws	-0.81		Crippen Method
logp	0.698		Crippen Method
mvol	93.550	ml/mol	McGowan Method
pc	4283.05	kPa	Joback Method
tb	432.23	K	Joback Method
tc	639.58	K	Joback Method
tf	252.50	K	Joback Method
vc	0.343	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	180.37	J/mol×K	432.23	Joback Method
cpg	189.87	J/mol×K	466.79	Joback Method
cpg	198.97	J/mol×K	501.35	Joback Method
cpg	207.67	J/mol×K	535.90	Joback Method
cpg	215.98	J/mol×K	570.46	Joback Method
cpg	223.89	J/mol×K	605.02	Joback Method
cpg	231.42	J/mol×K	639.58	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=C36489039&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C36489039&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>hvp:</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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