

Cystamine

Other names:	Ethanamine, 2,2'-dithiobis- Ethylamine, 2,2'-dithiobis- Becaptan disulfure Bis(«beta»-aminoethyl)disulfide Cysteinamine disulfide Cystinamin Cystineamine Decarboxycystine «beta», «beta»'-Diaminodiethyl disulfide 2,2'-Dithiobis(ethylamine) 1591 L Mercamine disulfide «beta»-Mercaptoethylamine disulfide 3,4-Dithiahexyl-1,6-diamine 2-Aminoethyl disulfide
Inchi:	InChI=1S/C4H12N2S2/c5-1-3-7-8-4-2-6/h1-6H2
InchiKey:	APQPRKLAWCIJEK-UHFFFAOYSA-N
Formula:	C4H12N2S2
SMILES:	NCCSSCCN
Mol. weight [g/mol]:	152.28
CAS:	51-85-4

Physical Properties

Property code	Value	Unit	Source
gf	181.94	kJ/mol	Joback Method
hf	25.43	kJ/mol	Joback Method
hfus	24.77	kJ/mol	Joback Method
hvap	59.41	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	0.285		Crippen Method
mcvol	119.880	ml/mol	McGowan Method
pc	4730.11	kPa	Joback Method
rinpola	1410.00		NIST Webbook
rinpola	1410.00		NIST Webbook
tb	573.54	K	Joback Method
tc	813.63	K	Joback Method
tf	370.16	K	Joback Method

vc

0.425

m³/kmol

Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.88	J/mol×K	573.54	Joback Method
cpg	281.36	J/mol×K	613.55	Joback Method
cpg	291.23	J/mol×K	653.57	Joback Method
cpg	300.48	J/mol×K	693.58	Joback Method
cpg	309.10	J/mol×K	733.60	Joback Method
cpg	317.11	J/mol×K	773.61	Joback Method
cpg	324.50	J/mol×K	813.63	Joback Method

Sources

NIST Webbook:<http://webbook.nist.gov/cgi/cbook.cgi?ID=C51854&Units=SI>**Crippen Method:**<http://pubs.acs.org/doi/abs/10.1021/ci9903071>**Crippen Method:**https://www.chemeo.com/doc/models/crippen_log10ws**Joback Method:**https://en.wikipedia.org/wiki/Joback_method**McGowan Method:**<http://link.springer.com/article/10.1007/BF02311772>

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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