1,2-Ethanediamine, N'-ethyl-N,N-dimethyl-

Other names:	Ethylenediamine, N'-ethyl-N,N-dimethyl- N'-Ethyl-N,N-dimethylethylenediamine N,N-Dimethyl-N'-ethylethylenediamine 2-ethylaminoethyldimethylamine
Inchi:	InChI=1S/C6H16N2/c1-4-7-5-6-8(2)3/h7H,4-6H2,1-3H3
InchiKey:	WLNSKTSWPYTNLY-UHFFFAOYSA-N
Formula:	C6H16N2
SMILES:	CCNCCN(C)C
Mol. weight [g/mol]:	116.20
CAS:	123-83-1

Physical Properties

Property code	Value	Unit	Source
gf	199.81	kJ/mol	Joback Method
hf	-46.17	kJ/mol	Joback Method
hfus	19.42	kJ/mol	Joback Method
hvap	37.43	kJ/mol	Joback Method
log10ws	-0.09		Crippen Method
logp	0.158		Crippen Method
mcvol	115.360	ml/mol	McGowan Method
pc	3145.56	kPa	Joback Method
tb	407.70	K	NIST Webbook
tc	567.84	K	Joback Method
tf	242.51	K	Joback Method
vc	0.424	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.50	J/mol×K	399.29	Joback Method
cpg	240.03	J/mol×K	427.38	Joback Method
cpg	252.05	J/mol×K	455.47	Joback Method
cpg	263.56	J/mol×K	483.57	Joback Method
cpg	274.60	J/mol×K	511.66	Joback Method

cpg	285.16	J/mol×K	539.75	Joback Method
cpg	295.26	J/mol×K	567.84	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C123831&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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