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

Other names: Ethylenediamine, N,N'-diethyl-N,N'-dimethyl-
N,N'-Diethyl-N,N'-dimethylethylenediamine
N,N'-Dimethyl-N,N'-diethylethylenediamine
Inchi: InChI=1S/C8H20N2/c1-5-9(3)7-8-10(4)6-2/h5-8H2,1-4H3
InchiKey: BWTBHGDNJBIYAQ-UHFFFAOYSA-N
Formula: C8H20N2
SMILES: CCN(C)CCN(C)CC
Mol. weight [g/mol]: 144.26
CAS: 106-66-1

Physical Properties

Property code	Value	Unit	Source
gf	238.04	kJ/mol	Joback Method
hf	-73.39	kJ/mol	Joback Method
hfus	22.52	kJ/mol	Joback Method
hvap	37.49	kJ/mol	Joback Method
log10ws	-0.31		Crippen Method
logp	0.890		Crippen Method
mcvol	143.540	ml/mol	McGowan Method
pc	2525.19	kPa	Joback Method
tb	407.32	K	Joback Method
tc	568.48	K	Joback Method
tf	244.86	K	Joback Method
vc	0.519	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	291.42	J/mol×K	407.32	Joback Method
cpg	306.48	J/mol×K	434.18	Joback Method
cpg	320.91	J/mol×K	461.04	Joback Method
cpg	334.74	J/mol×K	487.90	Joback Method
cpg	347.98	J/mol×K	514.76	Joback Method
cpg	360.66	J/mol×K	541.62	Joback Method

cpg	372.80	J/mol×K	568.48	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C106661&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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