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

Other names:	Ethylenediamine, N,N'-diethyl- N,N'-Diethyl-1,2-diaminoethane N,N'-Diethylethylenediamine 1,2-Bis(ethylamino)ethane
Inchi:	InChI=1S/C6H16N2/c1-3-7-5-6-8-4-2/h7-8H,3-6H2,1-2H3
InchiKey:	CJKRXEBLWJVYJD-UHFFFAOYSA-N
Formula:	C6H16N2
SMILES:	CCNCCNCC
Mol. weight [g/mol]:	116.20
CAS:	111-74-0

Physical Properties

Property code	Value	Unit	Source
gf	178.42	kJ/mol	Joback Method
hf	-60.23	kJ/mol	Joback Method
hfus	21.49	kJ/mol	Joback Method
hvap	41.82	kJ/mol	Joback Method
log10ws	-0.71		Crippen Method
logp	0.205		Crippen Method
mcvol	115.360	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
tb	426.20	K	NIST Webbook
tc	611.56	K	Joback Method
tf	262.70	K	Joback Method
vc	0.442	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.82	J/mol×K	437.02	Joback Method
cpg	254.88	J/mol×K	466.11	Joback Method
cpg	266.47	J/mol×K	495.20	Joback Method
cpg	277.58	J/mol×K	524.29	Joback Method
cpg	288.23	J/mol×K	553.38	Joback Method

cpg	298.43	J/mol×K	582.47	Joback Method
cpg	308.20	J/mol×K	611.56	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C111740&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume