1-Heptadecanamine, N,N-dimethyl-

Other names: N,N-dimethylheptadecylamine
Inchi: InChI=1S/C19H41N/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20(2)3/h4-19H2,1-3H
InchiKey: WCVHUIPWSPEOIG-UHFFFAOYSA-N
Formula: C19H41N
SMILES: CCCCCCCCCCCCCCCCCN(C)C
Mol. weight [g/mol]: 283.54
CAS: 3002-57-1

Physical Properties

Property code	Value	Unit	Source
gf	219.88	kJ/mol	Joback Method
hf	-367.96	kJ/mol	Joback Method
hfus	47.99	kJ/mol	Joback Method
hvap	59.93	kJ/mol	Joback Method
log10ws	-6.35		Crippen Method
logp	6.419		Crippen Method
mcvol	288.550	ml/mol	McGowan Method
pc	1079.22	kPa	Joback Method
tb	646.56	K	Joback Method
tc	805.99	K	Joback Method
tf	336.36	K	Joback Method
vc	1.117	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	823.56	J/mol×K	646.56	Joback Method
cpg	844.31	J/mol×K	673.13	Joback Method
cpg	864.20	J/mol×K	699.70	Joback Method
cpg	883.26	J/mol×K	726.28	Joback Method
cpg	901.50	J/mol×K	752.85	Joback Method
cpg	918.97	J/mol×K	779.42	Joback Method
cpg	935.68	J/mol×K	805.99	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3002571&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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