1-Nonadecanamine, N,N-dimethyl-

Inchi: InChI=1S/C21H45N/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22(2)3/h4-21H
InchiKey: PKMWMAMVKCMWQG-UHFFFAOYSA-N
Formula: C21H45N
SMILES: CCCCCCCCCCCCCCCCCCCN(C)C
Mol. weight [g/mol]: 311.59
CAS: 49859-87-2

Physical Properties

Property code	Value	Unit	Source
gf	236.72	kJ/mol	Joback Method
hf	-409.24	kJ/mol	Joback Method
hfus	53.17	kJ/mol	Joback Method
hvap	64.38	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	7.200		Crippen Method
mcvol	316.730	ml/mol	McGowan Method
pc	954.96	kPa	Joback Method
tb	692.32	K	Joback Method
tc	854.82	K	Joback Method
tf	358.90	K	Joback Method
vc	1.230	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	944.23	J/mol×K	692.32	Joback Method
cpg	965.83	J/mol×K	719.40	Joback Method
cpg	986.49	J/mol×K	746.49	Joback Method
cpg	1006.26	J/mol×K	773.57	Joback Method
cpg	1025.16	J/mol×K	800.65	Joback Method
cpg	1043.22	J/mol×K	827.74	Joback Method
cpg	1060.49	J/mol×K	854.82	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C49859872&Units=SI

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