Tetradecylamine, N,N-diethyl

Inchi: InChI=1S/C18H39N/c1-4-7-8-9-10-11-12-13-14-15-16-17-18-19(5-2)6-3/h4-18H2,1-3H3
InchiKey: YUMFFTKWMWTBBU-UHFFFAOYSA-N
Formula: C18H39N
SMILES: CCCCCCCCCCCCCCN(CC)CC
Mol. weight [g/mol]: 269.51

Physical Properties

Property code	Value	Unit	Source
gf	211.46	kJ/mol	Joback Method
hf	-347.32	kJ/mol	Joback Method
hfus	45.40	kJ/mol	Joback Method
hvap	57.70	kJ/mol	Joback Method
log10ws	-5.93		Crippen Method
logp	6.029		Crippen Method
mcvol	274.460	ml/mol	McGowan Method
pc	1150.65	kPa	Joback Method
rinpol	1842.00		NIST Webbook
tb	623.68	K	Joback Method
tc	782.28	K	Joback Method
tf	325.09	K	Joback Method
vc	1.062	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	764.90	J/mol×K	623.68	Joback Method
cpg	785.25	J/mol×K	650.11	Joback Method
cpg	804.77	J/mol×K	676.55	Joback Method
cpg	823.47	J/mol×K	702.98	Joback Method
cpg	841.39	J/mol×K	729.41	Joback Method
cpg	858.55	J/mol×K	755.84	Joback Method
cpg	874.99	J/mol×K	782.28	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=R543805&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume