N,N-Dimethyl-2-pentylnonylamine

Inchi: InChI=1S/C16H35N/c1-5-7-9-10-12-14-16(15-17(3)4)13-11-8-6-2/h16H,5-15H2,1-4H3
InchiKey: OCKPWMNLYXGKSL-UHFFFAOYSA-N
Formula: C16H35N
SMILES: CCCCCCCC(CCCCC)CN(C)C
Mol. weight [g/mol]: 241.46
CAS: 99916-30-0

Physical Properties

Property code	Value	Unit	Source
gf	192.18	kJ/mol	Joback Method
hf	-311.32	kJ/mol	Joback Method
hfus	36.69	kJ/mol	Joback Method
hvap	52.86	kJ/mol	Joback Method
log10ws	-4.85		Crippen Method
logp	5.105		Crippen Method
mcvol	246.280	ml/mol	McGowan Method
pc	1324.24	kPa	Joback Method
tb	577.48	K	Joback Method
tc	737.88	K	Joback Method
tf	287.55	K	Joback Method
vc	0.944	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	651.61	J/mol×K	577.48	Joback Method
cpg	671.47	J/mol×K	604.21	Joback Method
cpg	690.51	J/mol×K	630.95	Joback Method
cpg	708.76	J/mol×K	657.68	Joback Method
cpg	726.24	J/mol×K	684.41	Joback Method
cpg	742.99	J/mol×K	711.15	Joback Method
cpg	759.01	J/mol×K	737.88	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C99916300&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