1-PENTADECANAMINE, N,N-DIMETHYL-

Other names: N,N-dimethylpentadecylamine
Inchi: InChI=1S/C17H37N/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18(2)3/h4-17H2,1-3H3
InchiKey: SNHHYQWNNZIBLN-UHFFFAOYSA-N
Formula: C17H37N
SMILES: CCCCCCCCCCCCCCCN(C)C
Mol. weight [g/mol]: 255.49

Physical Properties

Property code	Value	Unit	Source
af	0.7657		Cheméo Relay (1.0)
gf	203.04	kJ/mol	Joback Method
hf	-334.52	kJ/mol	Cheméo Relay (1.0)
hfus	42.81	kJ/mol	Joback Method
hvap	84.53	kJ/mol	Cheméo Relay (1.0)
ie	8.31	eV	Cheméo Relay (1.0)
log10ws	-6.22		Cheméo Relay (1.0)
logp	5.639		Crippen Method
mcvol	260.370	ml/mol	McGowan Method
pc	1229.42	kPa	Joback Method
tb	569.75	K	Cheméo Relay (1.0)
tc	728.83	K	Cheméo Relay (1.0)
tf	289.25	K	Cheméo Relay (1.0)
vc	1.045	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	707.48	J/mol×K	600.80	Joback Method
cpg	727.42	J/mol×K	627.16	Joback Method
cpg	746.55	J/mol×K	653.52	Joback Method
cpg	764.89	J/mol×K	679.87	Joback Method
cpg	782.48	J/mol×K	706.23	Joback Method
cpg	799.33	J/mol×K	732.59	Joback Method
cpg	815.46	J/mol×K	758.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C17678603&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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