N,N-DIAMYLMETHYLAMINE

Other names: 1-Pentanamine, N-methyl-N-pentyl
Methyldipentylamine
Inchi: InChI=1S/C11H25N/c1-4-6-8-10-12(3)11-9-7-5-2/h4-11H2,1-3H3
InchiKey: JJRDPNRWFSHHKJ-UHFFFAOYSA-N
Formula: C11H25N
SMILES: CCCCCN(C)CCCCC
Mol. weight [g/mol]: 171.33

Physical Properties

Property code	Value	Unit	Source
af	0.5434		Cheméo Relay (1.0)
gf	152.52	kJ/mol	Joback Method
hf	-209.58	kJ/mol	Cheméo Relay (1.0)
hfus	27.27	kJ/mol	Joback Method
hvap	54.13	kJ/mol	Cheméo Relay (1.0)
ie	7.74	eV	Cheméo Relay (1.0)
log10ws	-2.88		Cheméo Relay (1.0)
logp	3.299		Crippen Method
mcvol	175.830	ml/mol	McGowan Method
pc	1930.44	kPa	Joback Method
rinpol	1136.00		NIST Webbook
rinpol	1093.60		NIST Webbook
rinpol	1136.00		NIST Webbook
tb	472.17	K	Cheméo Relay (1.0)
tc	630.55	K	Cheméo Relay (1.0)
tf	210.30	K	Cheméo Relay (1.0)
vc	0.675	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.80	J/mol×K	463.52	Joback Method
cpg	410.50	J/mol×K	490.27	Joback Method
cpg	426.56	J/mol×K	517.03	Joback Method

cpg	441.98	J/mol×K	543.78	Joback Method
cpg	456.78	J/mol×K	570.54	Joback Method
cpg	470.99	J/mol×K	597.29	Joback Method
cpg	484.61	J/mol×K	624.04	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
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=C76257733&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume