N,N-Dimethyl-1-propanamine

Other names:	Dimethylpropylamine N,N-Dimethyl-n-propylamine 1-Propanamine, N,N-dimethyl- Propylamine, N,N-dimethyl- N,N-Dimethylpropylamine Dimethyl-N-propylamine Propyldimethylamine UN 2266 (CH3)2(n-C3H7)N N,N-Dimethylpropanamine
Inchi:	InChI=1S/C5H13N/c1-4-5-6(2)3/h4-5H2,1-3H3
InchiKey:	ZUHZZVMEUAUWHY-UHFFFAOYSA-N
Formula:	C5H13N
SMILES:	CCCN(C)C
Mol. weight [g/mol]:	87.16
CAS:	926-63-6

Physical Properties

Property code	Value	Unit	Source
affp	962.80	kJ/mol	NIST Webbook
basg	931.90	kJ/mol	NIST Webbook
gf	102.00	kJ/mol	Joback Method
hf	-79.00	kJ/mol	Joback Method
hfus	11.73	kJ/mol	Joback Method
hvap	28.77	kJ/mol	Joback Method
log10ws	-0.49		Crippen Method
logp	0.958		Crippen Method
mcvol	91.290	ml/mol	McGowan Method
pc	3460.21	kPa	Joback Method
rinpol	591.00		NIST Webbook
rinpol	597.00		NIST Webbook
rinpol	597.00		NIST Webbook
tb	326.24	K	Joback Method
tc	488.24	K	Joback Method
tf	178.58	K	Joback Method
vc	0.334	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	148.87	J/mol×K	326.24	Joback Method
cpg	159.33	J/mol×K	353.24	Joback Method
cpg	169.39	J/mol×K	380.24	Joback Method
cpg	179.07	J/mol×K	407.24	Joback Method
cpg	188.38	J/mol×K	434.24	Joback Method
cpg	197.32	J/mol×K	461.24	Joback Method
cpg	205.91	J/mol×K	488.24	Joback Method

Sources

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=C926636&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

affp:	Proton affinity
basg:	Gas basicity
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