1-Naphthalenamine, 1,2,3,4-tetrahydro-

Other names: 1,2,3,4-tetrahydro-1-naphthylamine
1-amino-1,2,3,4-tetrahydronaphthalene
Inchi: InChI=1S/C10H13N/c11-10-7-3-5-8-4-1-2-6-9(8)10/h1-2,4,6,10H,3,5,7,11H2
InchiKey: JRZGPXSSNPTNMA-UHFFFAOYSA-N
Formula: C10H13N
SMILES: NC1CCCc2ccccc21
Mol. weight [g/mol]: 147.22
CAS: 2217-40-5

Physical Properties

Property code	Value	Unit	Source
gf	251.20	kJ/mol	Joback Method
hf	75.76	kJ/mol	Joback Method
hfus	16.54	kJ/mol	Joback Method
hvap	51.52	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.023		Crippen Method
mcvol	127.120	ml/mol	McGowan Method
pc	3673.09	kPa	Joback Method
tb	543.40	K	Joback Method
tc	786.32	K	Joback Method
tf	339.08	K	Joback Method
vc	0.466	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.96	J/mol×K	543.40	Joback Method
cpg	318.47	J/mol×K	583.89	Joback Method
cpg	333.76	J/mol×K	624.37	Joback Method
cpg	347.92	J/mol×K	664.86	Joback Method
cpg	361.00	J/mol×K	705.35	Joback Method
cpg	373.10	J/mol×K	745.84	Joback Method
cpg	384.28	J/mol×K	786.32	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=C2217405&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume