1-Naphthalenamine, 5,6,7,8-tetrahydro-

Other names:	1-Naphthylamine, 5,6,7,8-tetrahydro-
	1-Amino-5,6,7,8-tetrahydronaphthalene
	5-Amino-1,2,3,4-tetrahydronaphthalene
	5-Aminotetralin
	5-Tetralylamine
	5,6,7,8-Tetrahydro-1-naphthylamine
	«alpha»-Tetrahydronaphthylamine
	1,2,3,4-Tetrahydro-5-naphthylamine
	1,2,3,4-Tetrahydro-5-naphthalenamine
	NSC 53503
Inchi:	InChI=1S/C10H13N/c11-10-7-3-5-8-4-1-2-6-9(8)10/h3,5,7H,1-2,4,6,11H2
InchiKey:	SODWJACROGQSMM-UHFFFAOYSA-N
Formula:	C10H13N
SMILES:	Nc1cccc2c1CCCC2
Mol. weight [g/mol]:	147.22
CAS:	2217-41-6

Physical Properties

Property code	Value	Unit	Source
gf	249.28	kJ/mol	Joback Method
hf	84.63	kJ/mol	Joback Method
hfus	15.08	kJ/mol	Joback Method
hvap	52.49	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.148		Crippen Method
mcvol	127.120	ml/mol	McGowan Method
pc	3754.57	kPa	Joback Method
rinpol	255.76		NIST Webbook
rinpol	255.76		NIST Webbook
tb	553.05	K	Joback Method
tc	797.11	K	Joback Method
tf	355.84	K	Joback Method
vc	0.467	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.24	J/mol×K	553.05	Joback Method
cpg	315.86	J/mol×K	593.73	Joback Method
cpg	330.33	J/mol×K	634.40	Joback Method
cpg	343.72	J/mol×K	675.08	Joback Method
cpg	356.12	J/mol×K	715.76	Joback Method
cpg	367.60	J/mol×K	756.44	Joback Method
cpg	378.24	J/mol×K	797.11	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	549.20	K	95.10	NIST Webbook

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=C2217416&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume