1-Naphthalenemethanamine

Other names:	1-Naphthalenemethylamine
	«alpha»-Naphthylmethylamine
	(1-Naphthylmethyl)amine
	1-(Aminomethyl)naphthalene
	naphthalene-1-methylamine
Inchi:	InChI=1S/C11H11N/c12-8-10-6-3-5-9-4-1-2-7-11(9)10/h1-7H,8,12H2
InchiKey:	NVSYANRBXPURRQ-UHFFFAOYSA-N
Formula:	C11H11N
SMILES:	NCc1cccc2ccccc12
Mol. weight [g/mol]:	157.21
CAS:	118-31-0

Physical Properties

Property code	Value	Unit	Source
gf	317.62	kJ/mol	Joback Method
hf	179.55	kJ/mol	Joback Method
hfus	20.11	kJ/mol	Joback Method
hvap	55.30	kJ/mol	Joback Method
log10ws	-3.59		Crippen Method
logp	2.298		Crippen Method
mcvol	132.610	ml/mol	McGowan Method
pc	3646.53	kPa	Joback Method
tb	564.70	K	NIST Webbook
tc	818.15	K	Joback Method
tf	368.63	K	Joback Method
vc	0.494	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.71	J/mol×K	574.25	Joback Method
cpg	321.50	J/mol×K	614.90	Joback Method
cpg	334.20	J/mol×K	655.55	Joback Method
cpg	345.91	J/mol×K	696.20	Joback Method

cpg	356.71	J/mol×K	736.85	Joback Method
cpg	366.68	J/mol×K	777.50	Joback Method
cpg	375.92	J/mol×K	818.15	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C118310&Units=SI
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

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