5-Amino-1-naphthol

Other names:	1-Amino-5-naphthol
	1-Naphthalenol, 5-amino-
	C.I. 76650
	1-Amino-5-hydroxynaphthalene
	1-Naphthol, 5-amino-
	5-Amino-«alpha»-naphthol
	5-Hydroxy-1-naphthylamine
Inchi:	InChI=1S/C10H9NO/c11-9-5-1-4-8-7(9)3-2-6-10(8)12/h1-6,12H,11H2
InchiKey:	ZBIBQNVRTVLOHQ-UHFFFAOYSA-N
Formula:	C10H9NO
SMILES:	Nc1cccc2c(O)cccc12
Mol. weight [g/mol]:	159.18
CAS:	83-55-6

Physical Properties

Property code	Value	Unit	Source
gf	154.58	kJ/mol	Joback Method
hf	22.88	kJ/mol	Joback Method
hfus	23.31	kJ/mol	Joback Method
hvap	66.09	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	2.128		Crippen Method
mcvol	124.390	ml/mol	McGowan Method
pc	5022.80	kPa	Joback Method
tb	631.99	K	Joback Method
tc	890.94	K	Joback Method
tf	469.08	K	Joback Method
vc	0.405	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.55	J/mol×K	631.99	Joback Method
cpg	317.43	J/mol×K	675.15	Joback Method

cpg	327.40	J/mol×K	718.31	Joback Method
cpg	336.62	J/mol×K	761.46	Joback Method
cpg	345.25	J/mol×K	804.62	Joback Method
cpg	353.44	J/mol×K	847.78	Joback Method
cpg	361.37	J/mol×K	890.94	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=C83556&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