2-Naphthanilide, 4-amino-3-hydroxy-

Inchi: InChI=1S/C17H14N2O2/c18-15-13-9-5-4-6-11(13)10-14(16(15)20)17(21)19-12-7-2-1-3-8
InchiKey: OUYJTAOERRBAMD-UHFFFAOYSA-N
Formula: C17H14N2O2
SMILES: Nc1c(O)c(C(=O)Nc2ccccc2)cc2ccccc12
Mol. weight [g/mol]: 278.31
CAS: 23421-81-0

Physical Properties

Property code	Value	Unit	Source
gf	276.77	kJ/mol	Joback Method
hf	44.35	kJ/mol	Joback Method
hfus	41.79	kJ/mol	Joback Method
hvap	97.79	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	3.380		Crippen Method
mcvol	210.810	ml/mol	McGowan Method
pc	3497.14	kPa	Joback Method
tb	927.85	K	Joback Method
tc	1193.77	K	Joback Method
tf	689.50	K	Joback Method
vc	0.730	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	627.03	J/mol×K	927.85	Joback Method
cpg	639.25	J/mol×K	972.17	Joback Method
cpg	651.18	J/mol×K	1016.49	Joback Method
cpg	663.04	J/mol×K	1060.81	Joback Method
cpg	675.04	J/mol×K	1105.13	Joback Method
cpg	687.42	J/mol×K	1149.45	Joback Method
cpg	700.37	J/mol×K	1193.77	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=C23421810&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