3-Hydroxy-2-naphtho-2',4'-xylidide

Other names: 3-hydroxy-2',4'-dimethyl-2-naphthanilide
Inchi: InChI=1S/C19H17NO2/c1-12-7-8-17(13(2)9-12)20-19(22)16-10-14-5-3-4-6-15(14)11-18(
InchiKey: VTPSNRIENVXKCI-UHFFFAOYSA-N
Formula: C19H17NO2
SMILES: Cc1ccc(N=C(O)c2cc3ccccc3cc2O)c(C)c1
Mol. weight [g/mol]: 291.34
CAS: 92-75-1

Physical Properties

Property code	Value	Unit	Source
hf	-62.88	kJ/mol	Joback Method
hvap	99.15	kJ/mol	Joback Method
log10ws	-5.46		Crippen Method
logp	4.799		Crippen Method
mcvol	229.010	ml/mol	McGowan Method
pc	2405.28	kPa	Joback Method
tb	970.76	K	Joback Method
tc	1219.93	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C92751&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

hf: Enthalpy of formation 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