N,N'-Bis(salicylidene)-1,3-propanediamine

Other names:	1,3-Bis(o-hydroxybenzylideneamino)propane 1,3-Bis(salicylideneamino)propane 2,2'-((propane-1,3-diylbis(azanylylidene))bis(methanylylidene))diphenol DSPD Disalicylicenepropanediamine Disalicylidene-1,3-propanediamine Disalicylidenepropanediamine N,N'-Disalicylidene-1,3-diamino-propane N,N'-bis(2-hydroxybenzylidene)-1,3-propanediamine NSC 166332 Phenol, 2,2'-[1,3-propanediylbis(nitrilomethylidyne)]bis- o-Cresol, alpha,alpha'-(trimethylenedinitrilo)di- o-Cresol, «alpha»,«alpha»'-(trimethylenedinitrilo)di- «alpha»,«alpha»'-(Trimethylenedinitrilo)di-o-cresol
Inchi:	InChI=1S/C17H18N2O2/c20-16-8-3-1-6-14(16)12-18-10-5-11-19-13-15-7-2-4-9-17(15)21
InchiKey:	KLDZYURQCUYZBL-UHFFFAOYSA-N
Formula:	C17H18N2O2
SMILES:	Oc1ccccc1C=NCCCN=Cc1ccccc1O
Mol. weight [g/mol]:	282.34
CAS:	120-70-7

Physical Properties

Property code	Value	Unit	Source
hf	-111.33	kJ/mol	Joback Method
hvap	90.64	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	3.026		Crippen Method
mcvol	225.970	ml/mol	McGowan Method
pc	2267.57	kPa	Joback Method
tb	956.32	K	Joback Method
tc	1218.16	K	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Effect of an ionic liquid on the volumetric behavior of tetradentate N2O2-type Schiff bases in DMF at T = (308.15 to 328.15) K:	https://www.doi.org/10.1016/j.jct.2012.02.020
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=C120707&Units=SI

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