2-Hydroxy-5-methylazobenzene

Other names:	2-Phenylazo-p-cresol
	2-Phenylazo-4-methylphenol
	p-Cresol, 2-(phenylazo)-
	C.I. 11850
	Oil Yellow APC
	Phenol, 4-methyl-2-(phenylazo)-
	4-Methyl-2-(phenylazo)phenol
	4-Methyl-2-(phenyldiazenyl)phenol
	Phenol, 4-methyl-2-(2-phenyldiazenyl)-
	C.I.SOLVENT YELLOW 11
Inchi:	InChI=1S/C13H12N2O/c1-10-7-8-13(16)12(9-10)15-14-11-5-3-2-4-6-11/h2-9,16H,1H3
InchiKey:	NJOXSODFMZIZJD-UHFFFAOYSA-N
Formula:	C13H12N2O
SMILES:	Cc1ccc(O)c(N=Nc2ccccc2)c1
Mol. weight [g/mol]:	212.25
CAS:	952-47-6

Physical Properties

Property code	Value	Unit	Source
hf	19.85	kJ/mol	Joback Method
hvap	69.43	kJ/mol	Joback Method
ie	7.40	eV	NIST Webbook
ie	7.95	eV	NIST Webbook
log10ws	-3.54		Crippen Method
logp	4.116		Crippen Method
mcvol	168.040	ml/mol	McGowan Method
pc	2679.08	kPa	Joback Method
tb	785.00	K	Joback Method
tc	1055.70	K	Joback Method

Sources

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=C952476&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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