2-Naphthalenol, 1-[(4-methoxyphenyl)azo]-

Other names: 1-[(4-Methoxyphenyl)diazenyl]-2-naphthol
1-(4-Methoxyphenylazo)-2-naphthol
Inchi: InChI=1S/C17H14N2O2/c1-21-14-9-7-13(8-10-14)18-19-17-15-5-3-2-4-12(15)6-11-16(17
InchiKey: XYVPTQBXFHRJJR-UHFFFAOYSA-N
Formula: C17H14N2O2
SMILES: COc1ccc(N=Nc2c(O)ccc3ccccc23)cc1
Mol. weight [g/mol]: 278.31
CAS: 13411-91-1

Physical Properties

Property code	Value	Unit	Source
hf	-15.33	kJ/mol	Joback Method
hvap	83.05	kJ/mol	Joback Method
log10ws	-4.98		Crippen Method
logp	4.969		Crippen Method
mcvol	210.810	ml/mol	McGowan Method
pc	2261.11	kPa	Joback Method
tb	922.90	K	Joback Method
tc	1193.60	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
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=C13411911&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