1-(4-Acetylphenylazo)-2-naphthol

Inchi: InChI=1S/C18H14N2O2/c1-12(21)13-6-9-15(10-7-13)19-20-18-16-5-3-2-4-14(16)8-11-17
InchiKey: SSMUZAHROYORIJ-FMQUCBEESA-N
Formula: C18H14N2O2
SMILES: CC(=O)c1ccc(N=Nc2c(O)ccc3ccccc23)cc1
Mol. weight [g/mol]: 290.32
CAS: 4928-58-9

Physical Properties

Property code	Value	Unit	Source
hf	-16.33	kJ/mol	Joback Method
hvap	89.61	kJ/mol	Joback Method
log10ws	-5.53		Crippen Method
logp	5.163		Crippen Method
mcvol	220.600	ml/mol	McGowan Method
pc	2227.09	kPa	Joback Method
tb	977.23	K	Joback Method
tc	1250.27	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=C4928589&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
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