1-(2-Chlorophenylazo)-2-naphthol

Inchi: InChI=1S/C16H11ClN2O/c17-13-7-3-4-8-14(13)18-19-16-12-6-2-1-5-11(12)9-10-15(16)2
InchiKey: UYPPPLKYCVGNJV-VHEBQXMUSA-N
Formula: C16H11ClN2O
SMILES: Oc1ccc2ccccc2c1N=Nc1ccccc1Cl
Mol. weight [g/mol]: 282.72
CAS: 24390-65-6

Physical Properties

Property code	Value	Unit	Source
hf	121.79	kJ/mol	Joback Method
hvap	82.80	kJ/mol	Joback Method
log10ws	-5.55		Crippen Method
logp	5.614		Crippen Method
mcvol	203.090	ml/mol	McGowan Method
pc	2433.84	kPa	Joback Method
tb	915.03	K	Joback Method
tc	1197.25	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=C24390656&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