1-Naphthalenol, 4-[(4-chlorophenyl)azo]-

Inchi: InChI=1S/C16H11ClN2O/c17-11-5-7-12(8-6-11)18-19-15-9-10-16(20)14-4-2-1-3-13(14)1
InchiKey: GJXLPATZJPHDGX-UHFFFAOYSA-N
Formula: C16H11ClN2O
SMILES: Oc1ccc(N=Nc2ccc(Cl)cc2)c2ccccc12
Mol. weight [g/mol]: 282.72
CAS: 7252-64-4

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=C7252644&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