

1-Hydroxy-2-(m-chloro) naphthanilide

Inchi:	InChI=1S/C17H12ClNO2/c18-12-5-3-6-13(10-12)19-17(21)15-9-8-11-4-1-2-7-14(11)16(1)
InchiKey:	GOJVHGHCHCDSSJ-UHFFFAOYSA-N
Formula:	C17H12ClNO2
SMILES:	O=C(Nc1cccc(Cl)c1)c1ccc2ccccc2c1O
Mol. weight [g/mol]:	297.74
CAS:	50729-11-8

Physical Properties

Property code	Value	Unit	Source
gf	198.39	kJ/mol	Joback Method
hf	-5.18	kJ/mol	Joback Method
hfus	40.79	kJ/mol	Joback Method
hvap	91.53	kJ/mol	Joback Method
log10ws	-5.49		Crippen Method
logp	4.451		Crippen Method
mcvol	213.070	ml/mol	McGowan Method
pc	3138.51	kPa	Joback Method
tb	892.75	K	Joback Method
tc	1157.06	K	Joback Method
tf	636.16	K	Joback Method
vc	0.750	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	591.12	J/molxK	892.75	Joback Method
cpg	602.85	J/molxK	936.80	Joback Method
cpg	614.20	J/molxK	980.85	Joback Method
cpg	625.36	J/molxK	1024.91	Joback Method
cpg	636.57	J/molxK	1068.96	Joback Method
cpg	648.02	J/molxK	1113.01	Joback Method
cpg	659.93	J/molxK	1157.06	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=C50729118&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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