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

Inchi: InChI=1S/C17H12ClNO2/c18-14-7-3-4-8-15(14)19-17(21)13-10-9-11-5-1-2-6-12(11)16(1
InchiKey: YXEUJDYNRXPJAN-UHFFFAOYSA-N
Formula: C17H12ClNO2
SMILES: O=C(Nc1ccccc1Cl)c1ccc2ccccc2c1O
Mol. weight [g/mol]: 297.74
CAS: 50729-10-7

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/mol×K	892.75	Joback Method
cpg	602.85	J/mol×K	936.80	Joback Method
cpg	614.20	J/mol×K	980.85	Joback Method
cpg	625.36	J/mol×K	1024.91	Joback Method
cpg	636.57	J/mol×K	1068.96	Joback Method
cpg	648.02	J/mol×K	1113.01	Joback Method
cpg	659.93	J/mol×K	1157.06	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=C50729107&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume