5-Chlorosalicylidene aniline

Inchi:	InChI=1S/C13H10ClNO/c14-11-6-7-13(16)10(8-11)9-15-12-4-2-1-3-5-12/h1-9,16H
InchiKey:	USHSXCMBQPJHEF-UHFFFAOYSA-N
Formula:	C13H10ClNO
SMILES:	Oc1ccc(Cl)cc1C=Nc1ccccc1
Mol. weight [g/mol]:	231.68
CAS:	15597-76-9

Physical Properties

Property code	Value	Unit	Source
hf	39.11	kJ/mol	Joback Method
hvap	70.46	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	3.796		Crippen Method
mcvol	170.300	ml/mol	McGowan Method
pc	3045.68	kPa	Joback Method
tb	749.91	K	Joback Method
tc	1020.91	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15597769&Units=SI
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

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

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