

# 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
mcpvol	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](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/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

<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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