

# 4-Chlorophenyl salicylate

<b>Inchi:</b>	InChI=1S/C13H9ClO3/c14-9-5-7-10(8-6-9)17-13(16)11-3-1-2-4-12(11)15/h1-8,15H
<b>InchiKey:</b>	TUYYMOBSJNEIKN-UHFFFAOYSA-N
<b>Formula:</b>	C13H9ClO3
<b>SMILES:</b>	O=C(Oc1ccc(Cl)cc1)c1ccccc1O
<b>Mol. weight [g/mol]:</b>	248.66
<b>CAS:</b>	2944-58-3

## Physical Properties

Property code	Value	Unit	Source
gf	-126.70	kJ/mol	Joback Method
hf	-287.91	kJ/mol	Joback Method
hfus	29.89	kJ/mol	Joback Method
hvap	76.30	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	3.265		Crippen Method
mvol	172.060	ml/mol	McGowan Method
pc	3624.61	kPa	Joback Method
tb	749.52	K	Joback Method
tc	1007.84	K	Joback Method
tf	515.43	K	Joback Method
vc	0.587	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.08	J/molxK	749.52	Joback Method
cpg	481.55	J/molxK	964.79	Joback Method
cpg	473.13	J/molxK	921.73	Joback Method
cpg	464.20	J/molxK	878.68	Joback Method
cpg	454.62	J/molxK	835.63	Joback Method
cpg	444.29	J/molxK	792.57	Joback Method
cpg	489.56	J/molxK	1007.84	Joback Method
dvisc	0.0000115	Paxs	749.52	Joback Method
dvisc	0.0000160	Paxs	710.50	Joback Method

dvisc	0.0000234	Paxs	671.49	Joback Method
dvisc	0.0000357	Paxs	632.48	Joback Method
dvisc	0.0000576	Paxs	593.46	Joback Method
dvisc	0.0000994	Paxs	554.45	Joback Method
dvisc	0.0001862	Paxs	515.43	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2944583&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2944583&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

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

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