

# Benzaldehyde, 2-hydroxy, 3-chloro, 5-(t-butyl)

<b>Inchi:</b>	InChI=1S/C11H13ClO2/c1-11(2,3)8-4-7(6-13)10(14)9(12)5-8/h4-6,14H,1-3H3
<b>InchiKey:</b>	WLZAKZNRJLOORCP-UHFFFAOYSA-N
<b>Formula:</b>	C11H13ClO2
<b>SMILES:</b>	CC(C)(C)c1cc(Cl)c(O)c(C=O)c1
<b>Mol. weight [g/mol]:</b>	212.67

## Physical Properties

Property code	Value	Unit	Source
gf	-128.34	kJ/mol	Joback Method
hf	-344.16	kJ/mol	Joback Method
hfus	22.36	kJ/mol	Joback Method
hvap	66.50	kJ/mol	Joback Method
log10ws	-3.26		Crippen Method
logp	3.156		Crippen Method
mcvol	161.770	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
rinqol	1704.00		NIST Webbook
tb	651.20	K	Joback Method
tc	887.01	K	Joback Method
tf	451.25	K	Joback Method
vc	0.565	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	400.62	J/molxK	651.20	Joback Method
cpg	412.50	J/molxK	690.50	Joback Method
cpg	423.53	J/molxK	729.80	Joback Method
cpg	433.81	J/molxK	769.11	Joback Method
cpg	443.46	J/molxK	808.41	Joback Method
cpg	452.60	J/molxK	847.71	Joback Method
cpg	461.33	J/molxK	887.01	Joback Method
dvisc	0.0005256	Paxs	451.25	Joback Method
dvisc	0.0002690	Paxs	484.57	Joback Method

dvisc	0.0001501	Paxs	517.90	Joback Method
dvisc	0.0000899	Paxs	551.23	Joback Method
dvisc	0.0000570	Paxs	584.55	Joback Method
dvisc	0.0000380	Paxs	617.88	Joback Method
dvisc	0.0000264	Paxs	651.20	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=R256838&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R256838&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<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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