

# Benzaldehyde, 2-hydroxy, 5-butyl

<b>Inchi:</b>	InChI=1S/C11H14O2/c1-2-3-4-9-5-6-11(13)10(7-9)8-12/h5-8,13H,2-4H2,1H3
<b>InchiKey:</b>	RMXFTNYYIDMHAB-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O2
<b>SMILES:</b>	CCCCc1ccc(O)c(C=O)c1
<b>Mol. weight [g/mol]:</b>	178.23

## Physical Properties

Property code	Value	Unit	Source
gf	-109.62	kJ/mol	Joback Method
hf	-308.20	kJ/mol	Joback Method
hfus	25.97	kJ/mol	Joback Method
hvap	62.75	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.547		Crippen Method
mcvol	149.530	ml/mol	McGowan Method
pc	3322.01	kPa	Joback Method
rinpol	1684.00		NIST Webbook
rinpol	1684.00		NIST Webbook
tb	612.02	K	Joback Method
tc	830.29	K	Joback Method
tf	406.39	K	Joback Method
vc	0.526	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	374.37	J/molxK	612.02	Joback Method
cpg	386.95	J/molxK	648.40	Joback Method
cpg	398.73	J/molxK	684.78	Joback Method
cpg	409.79	J/molxK	721.16	Joback Method
cpg	420.21	J/molxK	757.54	Joback Method
cpg	430.05	J/molxK	793.91	Joback Method
cpg	439.39	J/molxK	830.29	Joback Method
dvisc	0.0011070	Paxs	406.39	Joback Method

dvisc	0.0005116	Paxs	440.66	Joback Method
dvisc	0.0002643	Paxs	474.93	Joback Method
dvisc	0.0001492	Paxs	509.20	Joback Method
dvisc	0.0000905	Paxs	543.48	Joback Method
dvisc	0.0000583	Paxs	577.75	Joback Method
dvisc	0.0000394	Paxs	612.02	Joback Method

## Sources

<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>
<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=R256858&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R256858&amp;Units=SI</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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