

# 4-(2-hydroxy-2-propyl)benzaldehyde

<b>Inchi:</b>	InChI=1S/C10H12O2/c1-10(2,12)9-5-3-8(7-11)4-6-9/h3-7,12H,1-2H3
<b>InchiKey:</b>	RCUMJJBGXUQSOF-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O2
<b>SMILES:</b>	CC(C)(O)c1ccc(C=O)cc1
<b>Mol. weight [g/mol]:</b>	164.20

## Physical Properties

Property code	Value	Unit	Source
gf	-97.40	kJ/mol	Joback Method
hf	-271.23	kJ/mol	Joback Method
hfus	14.27	kJ/mol	Joback Method
hvap	62.90	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	1.726		Crippen Method
mcvol	135.440	ml/mol	McGowan Method
pc	3555.77	kPa	Joback Method
rinqol	1365.00		NIST Webbook
tb	597.47	K	Joback Method
tc	805.63	K	Joback Method
tf	346.64	K	Joback Method
vc	0.512	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.36	J/molxK	597.47	Joback Method
cpg	342.72	J/molxK	632.16	Joback Method
cpg	353.30	J/molxK	666.86	Joback Method
cpg	363.15	J/molxK	701.55	Joback Method
cpg	372.32	J/molxK	736.24	Joback Method
cpg	380.85	J/molxK	770.93	Joback Method
cpg	388.79	J/molxK	805.63	Joback Method
dvisc	0.0054341	Paxs	346.64	Joback Method
dvisc	0.0018986	Paxs	388.44	Joback Method

dvisc	0.0008138	Paxs	430.25	Joback Method
dvisc	0.0004053	Paxs	472.06	Joback Method
dvisc	0.0002261	Paxs	513.86	Joback Method
dvisc	0.0001377	Paxs	555.66	Joback Method
dvisc	0.0000899	Paxs	597.47	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=R342766&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R342766&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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