

# 3-(2-Hydroxy-4-methyl-phenyl)-butan-2-one

<b>Inchi:</b>	InChI=1S/C11H14O2/c1-7-4-5-10(11(13)6-7)8(2)9(3)12/h4-6,8,13H,1-3H3
<b>InchiKey:</b>	YWKYLGVKGIAHDU-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O2
<b>SMILES:</b>	CC(=O)C(C)c1ccc(C)cc1O
<b>Mol. weight [g/mol]:</b>	178.23

## Physical Properties

Property code	Value	Unit	Source
gf	-141.46	kJ/mol	Joback Method
hf	-340.48	kJ/mol	Joback Method
hfus	21.76	kJ/mol	Joback Method
hvap	62.39	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.393		Crippen Method
mcvol	149.530	ml/mol	McGowan Method
pc	3310.55	kPa	Joback Method
ripol	2605.00		NIST Webbook
ripol	2605.00		NIST Webbook
tb	616.79	K	Joback Method
tc	844.69	K	Joback Method
tf	399.32	K	Joback Method
vc	0.509	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.96	J/molxK	616.79	Joback Method
cpg	387.15	J/molxK	654.77	Joback Method
cpg	399.48	J/molxK	692.76	Joback Method
cpg	411.03	J/molxK	730.74	Joback Method
cpg	421.86	J/molxK	768.73	Joback Method
cpg	432.07	J/molxK	806.71	Joback Method
cpg	441.73	J/molxK	844.69	Joback Method
dvisc	0.0012402	Paxs	399.32	Joback Method

dvisc	0.0005250	Paxs	435.56	Joback Method
dvisc	0.0002536	Paxs	471.81	Joback Method
dvisc	0.0001359	Paxs	508.05	Joback Method
dvisc	0.0000792	Paxs	544.30	Joback Method
dvisc	0.0000493	Paxs	580.54	Joback Method
dvisc	0.0000325	Paxs	616.79	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R326140&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R326140&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>ripol:</b>	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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