

# 3(2H)-Benzofuranone, 7-hydroxy-2,2-dimethyl-

<b>Other names:</b>	3-Ketocarbofuran phenol Carbofuran 3-keto 7-phenol 7-Hydroxy-2,2-dimethyl-1-benzofuran-3(2H)-one 2,3-Dihydro-7-hydroxy-2,2-dimethyl-3-ketobenzofuran 3-Ketocarbofuran-7-ol
<b>Inchi:</b>	InChI=1S/C10H10O3/c1-10(2)9(12)6-4-3-5-7(11)8(6)13-10/h3-5,11H,1-2H3
<b>InchiKey:</b>	XLZCZWCXCBPEJR-UHFFFAOYSA-N
<b>Formula:</b>	C10H10O3
<b>SMILES:</b>	CC1(C)Oc2c(O)cccc2C1=O
<b>Mol. weight [g/mol]:</b>	178.18
<b>CAS:</b>	17781-16-7

## Physical Properties

Property code	Value	Unit	Source
gf	-171.97	kJ/mol	Joback Method
hf	-383.64	kJ/mol	Joback Method
hfus	20.42	kJ/mol	Joback Method
hvap	61.33	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	1.746		Crippen Method
mcvol	130.450	ml/mol	McGowan Method
pc	4374.18	kPa	Joback Method
tb	642.23	K	Joback Method
tc	899.29	K	Joback Method
tf	489.75	K	Joback Method
vc	0.436	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.48	J/molxK	642.23	Joback Method
cpg	355.69	J/molxK	685.07	Joback Method
cpg	367.26	J/molxK	727.92	Joback Method
cpg	378.45	J/molxK	770.76	Joback Method

cpg	389.48	J/mol×K	813.61	Joback Method
cpg	400.62	J/mol×K	856.45	Joback Method
cpg	412.10	J/mol×K	899.29	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=C17781167&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17781167&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>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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