

# 3-hydroxy-4,5-dimethyl-3(2H)-furanone

<b>Inchi:</b>	InChI=1S/C6H8O3/c1-3-4(2)9-6(8)5(3)7/h5,7H,1-2H3
<b>InchiKey:</b>	DFCKRIQJSYAFQG-UHFFFAOYSA-N
<b>Formula:</b>	C6H8O3
<b>SMILES:</b>	CC1=C(C)C(O)C(=O)O1
<b>Mol. weight [g/mol]:</b>	128.13

## Physical Properties

Property code	Value	Unit	Source
gf	-298.64	kJ/mol	Joback Method
hf	-493.78	kJ/mol	Joback Method
hfus	17.25	kJ/mol	Joback Method
hvap	56.26	kJ/mol	Joback Method
log10ws	-0.82		Crippen Method
logp	0.198		Crippen Method
mcvol	93.550	ml/mol	McGowan Method
pc	4504.30	kPa	Joback Method
ripol	2192.00		NIST Webbook
ripol	2192.00		NIST Webbook
tb	548.03	K	Joback Method
tc	754.77	K	Joback Method
tf	349.69	K	Joback Method
vc	0.345	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	221.64	J/mol×K	548.03	Joback Method
cpg	231.11	J/mol×K	582.49	Joback Method
cpg	240.20	J/mol×K	616.94	Joback Method
cpg	248.92	J/mol×K	651.40	Joback Method
cpg	257.23	J/mol×K	685.86	Joback Method
cpg	265.12	J/mol×K	720.32	Joback Method
cpg	272.59	J/mol×K	754.77	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R390666&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R390666&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>hvp:</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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