

# 2(3H)-Furanone, dihydro-3,3-dimethyl-

<b>Other names:</b>	Butyric acid, 2,2-dimethyl-4-hydroxy-, $\gamma$ -lactone
<b>Inchi:</b>	InChI=1S/C6H10O2/c1-6(2)3-4-8-5(6)7/h3-4H2,1-2H3
<b>InchiKey:</b>	UPVAIJPDWVTFKT-UHFFFAOYSA-N
<b>Formula:</b>	C6H10O2
<b>SMILES:</b>	CC1(C)CCOC1=O
<b>Mol. weight [g/mol]:</b>	114.14
<b>CAS:</b>	3709-08-8

## Physical Properties

Property code	Value	Unit	Source
gf	-178.01	kJ/mol	Joback Method
hf	-361.15	kJ/mol	Joback Method
hfus	6.42	kJ/mol	Joback Method
hvap	36.81	kJ/mol	Joback Method
log10ws	-0.85		Crippen Method
logp	0.959		Crippen Method
mcvol	91.980	ml/mol	McGowan Method
pc	4200.18	kPa	Joback Method
tb	446.97	K	Joback Method
tc	673.94	K	Joback Method
tf	286.97	K	Joback Method
vc	0.339	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.83	J/molxK	446.97	Joback Method
cpg	207.04	J/molxK	484.80	Joback Method
cpg	219.39	J/molxK	522.63	Joback Method
cpg	230.96	J/molxK	560.45	Joback Method
cpg	241.84	J/molxK	598.28	Joback Method
cpg	252.12	J/molxK	636.11	Joback Method
cpg	261.89	J/molxK	673.94	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=C3709088&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3709088&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>h vap:</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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