

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

<b>Other names:</b>	«alpha»-Methylene butyrolactone «alpha»-Methylene-«gamma»-butyrolactone Dihydro-3-methylene-2(3H)-furanone Tulipalin A alpha-methylene-«gamma»-butyrolactone
<b>Inchi:</b>	InChI=1S/C5H6O2/c1-4-2-3-7-5(4)6/h1-3H2
<b>InchiKey:</b>	GSLDEZOOOSBFGP-UHFFFAOYSA-N
<b>Formula:</b>	C5H6O2
<b>SMILES:</b>	C=C1CCOC1=O
<b>Mol. weight [g/mol]:</b>	98.10
<b>CAS:</b>	547-65-9

## Physical Properties

Property code	Value	Unit	Source
gf	-120.15	kJ/mol	Joback Method
hf	-251.17	kJ/mol	Joback Method
h <sub>fus</sub>	7.90	kJ/mol	Joback Method
h <sub>vap</sub>	36.21	kJ/mol	Joback Method
log <sub>10</sub> ws	-0.53		Crippen Method
logp	0.489		Crippen Method
m <sub>cvol</sub>	73.590	ml/mol	McGowan Method
pc	4822.53	kPa	Joback Method
tb	427.68	K	Joback Method
tc	650.12	K	Joback Method
tf	269.72	K	Joback Method
vc	0.270	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
c <sub>pg</sub>	139.40	J/mol×K	427.68	Joback Method
c <sub>pg</sub>	148.86	J/mol×K	464.75	Joback Method
c <sub>pg</sub>	157.98	J/mol×K	501.83	Joback Method
c <sub>pg</sub>	166.72	J/mol×K	538.90	Joback Method

cpg	175.09	J/mol×K	575.98	Joback Method
cpg	183.08	J/mol×K	613.05	Joback Method
cpg	190.66	J/mol×K	650.12	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	360.20	K	1.60	NIST Webbook

## Sources

<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=C547659&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C547659&amp;Units=SI</a>
<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>

## 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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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