

# 2-Cyclopenten-1-one, 2-hydroxy-3,4-dimethyl-

<b>Other names:</b>	3,4-Dimethyl-2-hydroxycyclopent-2-en-1-one 2-Hydroxy-3,4-dimethyl-2-cyclopenten-1-one 3,4-Dimethyl-2-hydroxy-2-cyclopentenone 2-hydroxy-3,4-dimethylcyclopent-2-en-1-one
<b>Inchi:</b>	InChI=1S/C7H10O2/c1-4-3-6(8)7(9)5(4)2/h4,9H,3H2,1-2H3
<b>InchiKey:</b>	GXUQPCUHTNAVRJ-UHFFFAOYSA-N
<b>Formula:</b>	C7H10O2
<b>SMILES:</b>	<chem>CC1=C(O)C(=O)CC1C</chem>
<b>Mol. weight [g/mol]:</b>	126.15
<b>CAS:</b>	21835-00-7

## Physical Properties

Property code	Value	Unit	Source
gf	-204.10	kJ/mol	Joback Method
hf	-382.42	kJ/mol	Joback Method
hfus	11.86	kJ/mol	Joback Method
hvap	53.98	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.427		Crippen Method
mcvol	101.770	ml/mol	McGowan Method
pc	4021.02	kPa	Joback Method
rinpol	1075.00		NIST Webbook
rinpol	1063.00		NIST Webbook
rinpol	1075.00		NIST Webbook
ripol	1789.00		NIST Webbook
ripol	1839.00		NIST Webbook
ripol	1868.00		NIST Webbook
ripol	1789.00		NIST Webbook
ripol	1840.00		NIST Webbook
tb	543.96	K	Joback Method
tc	749.04	K	Joback Method
tf	334.39	K	Joback Method
vc	0.381	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	238.68	J/mol×K	543.96	Joback Method
cpg	249.51	J/mol×K	578.14	Joback Method
cpg	259.90	J/mol×K	612.32	Joback Method
cpg	269.85	J/mol×K	646.50	Joback Method
cpg	279.33	J/mol×K	680.68	Joback Method
cpg	288.35	J/mol×K	714.86	Joback Method
cpg	296.89	J/mol×K	749.04	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=C21835007&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C21835007&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>ripol:</b>	Non-polar retention indices
<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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