

# 2-Cyclopenten-1-one, 2-methyl-

<b>Other names:</b>	2-Methyl-2-cyclopentenone 2-Methyl-2-cyclopenten-1-one
<b>Inchi:</b>	InChI=1S/C6H8O/c1-5-3-2-4-6(5)7/h3H,2,4H2,1H3
<b>InchiKey:</b>	ZSBWUNDRDHVNJL-UHFFFAOYSA-N
<b>Formula:</b>	C6H8O
<b>SMILES:</b>	CC1=CCCC1=O
<b>Mol. weight [g/mol]:</b>	96.13
<b>CAS:</b>	1120-73-6

## Physical Properties

Property code	Value	Unit	Source
gf	-58.36	kJ/mol	Joback Method
hf	-177.74	kJ/mol	Joback Method
hfus	4.50	kJ/mol	Joback Method
hvap	34.72	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.296		Crippen Method
mcvol	81.810	ml/mol	McGowan Method
pc	4299.92	kPa	Joback Method
rinpol	905.00		NIST Webbook
rinpol	912.00		NIST Webbook
rinpol	920.00		NIST Webbook
rinpol	920.00		NIST Webbook
rinpol	922.00		NIST Webbook
rinpol	901.00		NIST Webbook
rinpol	922.00		NIST Webbook
rinpol	925.00		NIST Webbook
rinpol	913.00		NIST Webbook
rinpol	920.00		NIST Webbook
rinpol	907.60		NIST Webbook
rinpol	915.00		NIST Webbook
rinpol	903.00		NIST Webbook
rinpol	910.00		NIST Webbook
rinpol	896.00		NIST Webbook
rinpol	907.00		NIST Webbook
rinpol	914.00		NIST Webbook
rinpol	881.00		NIST Webbook

ripol	915.00		NIST Webbook
ripol	127.90		NIST Webbook
ripol	896.00		NIST Webbook
ripol	1373.00		NIST Webbook
ripol	1367.00		NIST Webbook
ripol	1355.00		NIST Webbook
ripol	1397.00		NIST Webbook
ripol	1356.00		NIST Webbook
ripol	1356.00		NIST Webbook
ripol	1366.00		NIST Webbook
ripol	1355.00		NIST Webbook
ripol	1354.00		NIST Webbook
ripol	1366.00		NIST Webbook
ripol	1367.00		NIST Webbook
ripol	1366.00		NIST Webbook
ripol	1397.00		NIST Webbook
ripol	1397.00		NIST Webbook
ripol	1386.00		NIST Webbook
ripol	1381.00		NIST Webbook
ripol	1395.00		NIST Webbook
ripol	1357.00		NIST Webbook
ripol	1381.00		NIST Webbook
ripol	1368.00		NIST Webbook
ripol	1349.00		NIST Webbook
ripol	1367.00		NIST Webbook
ripol	1354.00		NIST Webbook
ripol	1353.00		NIST Webbook
ripol	1355.00		NIST Webbook
ripol	1371.00		NIST Webbook
ripol	1371.00		NIST Webbook
ripol	1355.00		NIST Webbook
ripol	1357.00		NIST Webbook
ripol	1355.00		NIST Webbook
ripol	1367.00		NIST Webbook
tb	432.70	K	NIST Webbook
tb	430.20	K	NIST Webbook
tc	650.56	K	Joback Method
tf	254.02	K	Joback Method
vc	0.306	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.47	J/molxK	428.59	Joback Method
cpg	162.58	J/molxK	465.59	Joback Method
cpg	173.22	J/molxK	502.58	Joback Method
cpg	183.40	J/molxK	539.58	Joback Method
cpg	193.10	J/molxK	576.57	Joback Method
cpg	202.34	J/molxK	613.57	Joback Method
cpg	211.11	J/molxK	650.56	Joback Method

## 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=C1120736&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1120736&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>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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