

# 2-Cyclohexen-1-one, 3,5-dimethyl-

<b>Other names:</b>	3,5-Dimethyl-2-cyclohexen-1-one 3,5-Dimethyl-2-cyclohexene-1-one 3,5-dimethylcyclohex-2-en-1-one
<b>Inchi:</b>	InChI=1S/C8H12O/c1-6-3-7(2)5-8(9)4-6/h4,7H,3,5H2,1-2H3
<b>InchiKey:</b>	NOQKKFBBAODEHN-UHFFFAOYSA-N
<b>Formula:</b>	C8H12O
<b>SMILES:</b>	CC1=CC(=O)CC(C)C1
<b>Mol. weight [g/mol]:</b>	124.18
<b>CAS:</b>	1123-09-7

## Physical Properties

Property code	Value	Unit	Source
chl	-4648.80	kJ/mol	NIST Webbook
gf	-61.33	kJ/mol	Joback Method
hf	-245.52	kJ/mol	Joback Method
hfus	8.65	kJ/mol	Joback Method
hvap	39.03	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.932		Crippen Method
mcvol	109.990	ml/mol	McGowan Method
pc	3360.64	kPa	Joback Method
ripol	1624.00		NIST Webbook
ripol	1597.00		NIST Webbook
tb	484.70	K	NIST Webbook
tc	697.99	K	Joback Method
tf	268.80	K	Joback Method
vc	0.409	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.75	J/mol×K	473.95	Joback Method
cpg	246.94	J/mol×K	511.29	Joback Method
cpg	261.49	J/mol×K	548.63	Joback Method

cpg	275.38	J/mol×K	585.97	Joback Method
cpg	288.61	J/mol×K	623.31	Joback Method
cpg	301.16	J/mol×K	660.65	Joback Method
cpg	313.01	J/mol×K	697.99	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=C1123097&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1123097&amp;Units=SI</a>

## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<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>	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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