

# Ethanone, 1-(1-methylcyclohexyl)-

<b>Other names:</b>	1-(1-Methyl-cyclohexyl)-ethanone 1-(1-Methyl-3-cyclohexen-3-yl)ethanol
<b>Inchi:</b>	InChI=1S/C9H16O/c1-8(10)9(2)6-4-3-5-7-9/h3-7H2,1-2H3
<b>InchiKey:</b>	UBMBCDFRVPGSSQ-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O
<b>SMILES:</b>	CC(=O)C1(C)CCCCC1
<b>Mol. weight [g/mol]:</b>	140.22
<b>CAS:</b>	2890-62-2

## Physical Properties

Property code	Value	Unit	Source
gf	-85.06	kJ/mol	Joback Method
hf	-272.11	kJ/mol	Joback Method
hfus	6.20	kJ/mol	Joback Method
hvap	41.65	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.546		Crippen Method
mvol	128.380	ml/mol	McGowan Method
pc	3195.54	kPa	Joback Method
tb	478.98	K	Joback Method
tc	698.54	K	Joback Method
tf	272.40	K	Joback Method
vc	0.476	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.72	J/molxK	478.98	Joback Method
cpg	300.39	J/molxK	515.57	Joback Method
cpg	316.84	J/molxK	552.17	Joback Method
cpg	332.21	J/molxK	588.76	Joback Method
cpg	346.60	J/molxK	625.35	Joback Method
cpg	360.13	J/molxK	661.94	Joback Method
cpg	372.92	J/molxK	698.54	Joback Method

hvapt	54.60	kJ/mol	384.00	NIST Webbook
hvapt	46.10	kJ/mol	394.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2890622&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2890622&amp;Units=SI</a>
<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>

## 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>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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

Latest version available from:

<https://www.chemeo.com/cid/77-993-5/Ethanone-1-1-methylcyclohexyl.pdf>

Generated by Cheméo on 2024-04-19 18:42:19.289514479 +0000 UTC m=+15841388.210091791.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.