

# 5-Methyl-2-(1-methylethenylidene)cyclohexanone

<b>Inchi:</b>	InChI=1S/C10H16O/c1-7(2)9-5-4-8(3)6-10(9)11/h8H,4-6H2,1-3H3
<b>InchiKey:</b>	NZGWDASTMWDZIW-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	CC(C)=C1CCC(C)CC1=O
<b>Mol. weight [g/mol]:</b>	152.23

## Physical Properties

Property code	Value	Unit	Source
gf	-27.91	kJ/mol	Joback Method
hf	-266.87	kJ/mol	Joback Method
hfus	12.01	kJ/mol	Joback Method
hvap	43.40	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.712		Crippen Method
mvol	138.170	ml/mol	McGowan Method
pc	2758.46	kPa	Joback Method
rinpol	1335.00		NIST Webbook
rinpol	1332.00		NIST Webbook
tb	522.09	K	Joback Method
tc	747.18	K	Joback Method
tf	274.46	K	Joback Method
vc	0.519	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.00	J/molxK	522.09	Joback Method
cpg	339.06	J/molxK	559.61	Joback Method
cpg	356.24	J/molxK	597.12	Joback Method
cpg	372.52	J/molxK	634.64	Joback Method
cpg	387.93	J/molxK	672.15	Joback Method
cpg	402.44	J/molxK	709.67	Joback Method
cpg	416.08	J/molxK	747.18	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R577269&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R577269&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>hvp:</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>rinp:</b>	Non-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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