

# Cyclohexanone, 3-(1-methylethyl)

<b>Other names:</b>	3-Isopropylcyclohexanone
<b>Inchi:</b>	InChI=1S/C9H16O/c1-7(2)8-4-3-5-9(10)6-8/h7-8H,3-6H2,1-2H3
<b>InchiKey:</b>	AFFBXUKVORMWSC-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O
<b>SMILES:</b>	CC(C)C1CCCC(=O)C1
<b>Mol. weight [g/mol]:</b>	140.22

## Physical Properties

Property code	Value	Unit	Source
gf	-75.68	kJ/mol	Joback Method
hf	-317.75	kJ/mol	Joback Method
hfus	6.89	kJ/mol	Joback Method
hvap	39.92	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	2.402		Crippen Method
mvol	128.380	ml/mol	McGowan Method
pc	2973.04	kPa	Joback Method
rinpol	1172.00		NIST Webbook
rinpol	1172.00		NIST Webbook
tb	492.25	K	Joback Method
tc	714.29	K	Joback Method
tf	251.79	K	Joback Method
vc	0.473	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	291.68	J/mol×K	492.25	Joback Method
cpg	310.17	J/mol×K	529.26	Joback Method
cpg	327.79	J/mol×K	566.26	Joback Method
cpg	344.53	J/mol×K	603.27	Joback Method
cpg	360.40	J/mol×K	640.28	Joback Method
cpg	375.38	J/mol×K	677.29	Joback Method
cpg	389.49	J/mol×K	714.29	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R96123&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R96123&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>hvpap:</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>rinppl:</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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