

# Cyclohexanone, 2-methyl-, (.+/-.)-

<b>Inchi:</b>	InChI=1S/C7H12O/c1-6-4-2-3-5-7(6)8/h6H,2-5H2,1H3
<b>InchiKey:</b>	LFSAPCRASZRSKS-UHFFFAOYSA-N
<b>Formula:</b>	C7H12O
<b>SMILES:</b>	CC1CCCCC1=O
<b>Mol. weight [g/mol]:</b>	112.17
<b>CAS:</b>	24965-84-2

## Physical Properties

Property code	Value	Unit	Source
gf	-90.08	kJ/mol	Joback Method
hf	-271.19	kJ/mol	Joback Method
hfus	5.23	kJ/mol	Joback Method
hvap	35.85	kJ/mol	Joback Method
log10ws	-1.69		Crippen Method
logp	1.766		Crippen Method
mcvol	100.200	ml/mol	McGowan Method
pc	3673.09	kPa	Joback Method
tb	438.20	K	NIST Webbook
tc	670.65	K	Joback Method
tf	244.25	K	Joback Method
vc	0.367	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.07	J/molxK	446.93	Joback Method
cpg	219.79	J/molxK	484.22	Joback Method
cpg	234.85	J/molxK	521.50	Joback Method
cpg	249.23	J/molxK	558.79	Joback Method
cpg	262.92	J/molxK	596.07	Joback Method
cpg	275.92	J/molxK	633.36	Joback Method
cpg	288.21	J/molxK	670.65	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	363.20	K	2.70	NIST Webbook

## 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=C24965842&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24965842&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>

## 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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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