

# 2-Propanone, 1-cyclohexyl-

<b>Other names:</b>	Acetonylcyclohexane Cyclohexyl-2-propanone Cyclohexylacetone 1-Cyclohexyl-2-propanone
<b>Inchi:</b>	InChI=1S/C9H16O/c1-8(10)7-9-5-3-2-4-6-9/h9H,2-7H2,1H3
<b>InchiKey:</b>	UHBZEAPZATVYKV-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O
<b>SMILES:</b>	CC(=O)CC1CCCCC1
<b>Mol. weight [g/mol]:</b>	140.22
<b>CAS:</b>	103-78-6

## Physical Properties

Property code	Value	Unit	Source
gf	-79.57	kJ/mol	Joback Method
hf	-287.35	kJ/mol	Joback Method
hfus	12.50	kJ/mol	Joback Method
hvap	42.80	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.546		Crippen Method
mcvol	128.380	ml/mol	McGowan Method
pc	3038.96	kPa	Joback Method
tb	478.74	K	Joback Method
tc	689.04	K	Joback Method
tf	248.50	K	Joback Method
vc	0.478	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.21	J/mol×K	478.74	Joback Method
cpg	299.74	J/mol×K	513.79	Joback Method
cpg	316.33	J/mol×K	548.84	Joback Method
cpg	332.02	J/mol×K	583.89	Joback Method
cpg	346.82	J/mol×K	618.94	Joback Method

cpg	360.77	J/molxK	653.99	Joback Method
cpg	373.89	J/molxK	689.04	Joback Method
dvisc	0.0060031	Paxs	248.50	Joback Method
dvisc	0.0026369	Paxs	286.87	Joback Method
dvisc	0.0014064	Paxs	325.25	Joback Method
dvisc	0.0008565	Paxs	363.62	Joback Method
dvisc	0.0005734	Paxs	401.99	Joback Method
dvisc	0.0004117	Paxs	440.37	Joback Method
dvisc	0.0003117	Paxs	478.74	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=C103786&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C103786&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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