

# Cyclopentanone, 2-chloro-

<b>Other names:</b>	2-Chlorocyclopentanone 2-Chloro-1-cyclopentanone «alpha»-Chlorocyclopentanone
<b>Inchi:</b>	InChI=1S/C5H7ClO/c6-4-2-1-3-5(4)7/h4H,1-3H2
<b>InchiKey:</b>	AXDZFGRFZOQVBV-UHFFFAOYSA-N
<b>Formula:</b>	C5H7ClO
<b>SMILES:</b>	O=C1CCCC1Cl
<b>Mol. weight [g/mol]:</b>	118.56
<b>CAS:</b>	694-28-0

## Physical Properties

Property code	Value	Unit	Source
gf	-106.75	kJ/mol	Joback Method
hf	-239.49	kJ/mol	Joback Method
hfus	6.35	kJ/mol	Joback Method
hvap	35.61	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.347		Crippen Method
mcvol	84.260	ml/mol	McGowan Method
pc	4328.25	kPa	Joback Method
tb	434.33	K	Joback Method
tc	662.41	K	Joback Method
tf	255.15	K	Joback Method
vc	0.312	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	152.19	J/mol×K	434.33	Joback Method
cpg	163.64	J/mol×K	472.34	Joback Method
cpg	174.59	J/mol×K	510.36	Joback Method
cpg	185.02	J/mol×K	548.37	Joback Method
cpg	194.93	J/mol×K	586.38	Joback Method
cpg	204.33	J/mol×K	624.39	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	346.20	K	1.60	NIST Webbook

## 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=C694280&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C694280&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>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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