

# 4-Chlorophenyl cyclopropyl ketone

<b>Other names:</b>	Methanone, (4-chlorophenyl)cyclopropyl-
<b>Inchi:</b>	InChI=1S/C10H9ClO/c11-9-5-3-8(4-6-9)10(12)7-1-2-7/h3-7H,1-2H2
<b>InchiKey:</b>	OPSFCTBBDIDFJM-UHFFFAOYSA-N
<b>Formula:</b>	C10H9ClO
<b>SMILES:</b>	O=C(c1ccc(Cl)cc1)C1CC1
<b>Mol. weight [g/mol]:</b>	180.63
<b>CAS:</b>	6640-25-1

## Physical Properties

Property code	Value	Unit	Source
gf	56.00	kJ/mol	Joback Method
hf	-80.19	kJ/mol	Joback Method
hfus	19.24	kJ/mol	Joback Method
hvap	51.84	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	2.933		Crippen Method
mcvol	130.950	ml/mol	McGowan Method
pc	3435.91	kPa	Joback Method
tb	557.90	K	Joback Method
tc	795.94	K	Joback Method
tf	339.19	K	Joback Method
vc	0.499	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.71	J/mol×K	557.90	Joback Method
cpg	301.08	J/mol×K	597.57	Joback Method
cpg	313.40	J/mol×K	637.25	Joback Method
cpg	324.75	J/mol×K	676.92	Joback Method
cpg	335.20	J/mol×K	716.59	Joback Method
cpg	344.83	J/mol×K	756.26	Joback Method
cpg	353.72	J/mol×K	795.94	Joback Method
dvisc	0.0021340	Paxs	339.19	Joback Method

dvisc	0.0015419	Paxs	375.64	Joback Method
dvisc	0.0011801	Paxs	412.09	Joback Method
dvisc	0.0009432	Paxs	448.54	Joback Method
dvisc	0.0007798	Paxs	485.00	Joback Method
dvisc	0.0006620	Paxs	521.45	Joback Method
dvisc	0.0005742	Paxs	557.90	Joback Method

## Sources

<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=C6640251&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6640251&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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

Latest version available from:

<https://www.chemeo.com/cid/20-148-5/4-Chlorophenyl-cyclopropyl-ketone.pdf>

Generated by Cheméo on 2024-04-24 08:30:19.01813167 +0000 UTC m=+16236667.938708986.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.