

# 2-Butanone, 1-chloro-3-methyl

Inchi:	InChI=1S/C5H9ClO/c1-4(2)5(7)3-6/h4H,3H2,1-2H3
InchiKey:	GGTWUPLPAPTFAR-UHFFFAOYSA-N
Formula:	C5H9ClO
SMILES:	CC(C)C(=O)CCl
Mol. weight [g/mol]:	120.58

## Physical Properties

Property code	Value	Unit	Source
gf	-152.07	kJ/mol	Joback Method
hf	-280.13	kJ/mol	Joback Method
hfus	10.98	kJ/mol	Joback Method
hvap	37.47	kJ/mol	Joback Method
log10ws	-1.11		Crippen Method
logp	1.450		Crippen Method
mcvol	95.120	ml/mol	McGowan Method
pc	3611.55	kPa	Joback Method
rinpol	820.00		NIST Webbook
tb	404.66	K	Joback Method
tc	595.49	K	Joback Method
tf	210.96	K	Joback Method
vc	0.364	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	166.21	J/molxK	404.66	Joback Method
cpg	174.99	J/molxK	436.47	Joback Method
cpg	183.38	J/molxK	468.27	Joback Method
cpg	191.40	J/molxK	500.08	Joback Method
cpg	199.04	J/molxK	531.88	Joback Method
cpg	206.34	J/molxK	563.69	Joback Method
cpg	213.28	J/molxK	595.49	Joback Method
dvisc	0.0057299	Paxs	210.96	Joback Method
dvisc	0.0026320	Paxs	243.24	Joback Method

dvisc	0.0014508	Paxs	275.53	Joback Method
dvisc	0.0009061	Paxs	307.81	Joback Method
dvisc	0.0006188	Paxs	340.09	Joback Method
dvisc	0.0004515	Paxs	372.38	Joback Method
dvisc	0.0003464	Paxs	404.66	Joback Method

## 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=R629528&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R629528&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>

## 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>rinpol:</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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