

# 3-Pentanone, 2,2-dichloro

Inchi:	InChI=1S/C5H8Cl2O/c1-3-4(8)5(2,6)7/h3H2,1-2H3
InchiKey:	BMDBRMSPWDBXGN-UHFFFAOYSA-N
Formula:	C5H8Cl2O
SMILES:	CCC(=O)C(C)(Cl)Cl
Mol. weight [g/mol]:	155.02

## Physical Properties

Property code	Value	Unit	Source
gf	-158.72	kJ/mol	Joback Method
hf	-299.34	kJ/mol	Joback Method
hfus	11.29	kJ/mol	Joback Method
hvap	40.94	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	2.159		Crippen Method
mcvol	107.360	ml/mol	McGowan Method
pc	3501.28	kPa	Joback Method
rinpola	834.00		NIST Webbook
rinpola	834.00		NIST Webbook
tb	439.30	K	Joback Method
tc	645.91	K	Joback Method
tf	258.30	K	Joback Method
vc	0.408	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	191.93	J/molxK	439.30	Joback Method
cpg	201.14	J/molxK	473.73	Joback Method
cpg	209.74	J/molxK	508.17	Joback Method
cpg	217.75	J/molxK	542.60	Joback Method
cpg	225.21	J/molxK	577.04	Joback Method
cpg	232.16	J/molxK	611.47	Joback Method
cpg	238.61	J/molxK	645.91	Joback Method
dvisc	0.0053482	Paxs	258.30	Joback Method

dvisc	0.0027862	Paxs	288.47	Joback Method
dvisc	0.0016423	Paxs	318.63	Joback Method
dvisc	0.0010607	Paxs	348.80	Joback Method
dvisc	0.0007344	Paxs	378.97	Joback Method
dvisc	0.0005369	Paxs	409.13	Joback Method
dvisc	0.0004097	Paxs	439.30	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R630330&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R630330&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

## 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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