

# 3-Methyl-2-pentanone dimethylacetal

<b>Inchi:</b>	InChI=1S/C8H18O2/c1-6-7(2)8(3,9-4)10-5/h7H,6H2,1-5H3
<b>InchiKey:</b>	UJUJHPUWUAKXEJ-UHFFFAOYSA-N
<b>Formula:</b>	C8H18O2
<b>SMILES:</b>	CCC(C)C(C)(OC)OC
<b>Mol. weight [g/mol]:</b>	146.23
<b>CAS:</b>	72409-06-4

## Physical Properties

Property code	Value	Unit	Source
gf	-193.12	kJ/mol	Joback Method
hf	-486.92	kJ/mol	Joback Method
hfus	7.92	kJ/mol	Joback Method
hvap	36.54	kJ/mol	Joback Method
log10ws	-1.71		Crippen Method
logp	2.042		Crippen Method
mcvol	135.320	ml/mol	McGowan Method
pc	2517.59	kPa	Joback Method
tb	423.61	K	Joback Method
tc	602.03	K	Joback Method
tf	211.80	K	Joback Method
vc	0.502	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.39	J/molxK	423.61	Joback Method
cpg	298.55	J/molxK	453.35	Joback Method
cpg	312.17	J/molxK	483.08	Joback Method
cpg	325.27	J/molxK	512.82	Joback Method
cpg	337.84	J/molxK	542.55	Joback Method
cpg	349.90	J/molxK	572.29	Joback Method
cpg	361.46	J/molxK	602.03	Joback Method
dvisc	0.0082347	Paxs	211.80	Joback Method
dvisc	0.0028247	Paxs	247.10	Joback Method

dvisc	0.0012661	Paxs	282.40	Joback Method
dvisc	0.0006783	Paxs	317.71	Joback Method
dvisc	0.0004117	Paxs	353.01	Joback Method
dvisc	0.0002736	Paxs	388.31	Joback Method
dvisc	0.0001947	Paxs	423.61	Joback Method

## Sources

<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=C72409064&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C72409064&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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