

# 3-Hexanone, 5-hydroxy-5-methyl

<b>Inchi:</b>	InChI=1S/C7H14O2/c1-4-6(8)5-7(2,3)9/h9H,4-5H2,1-3H3
<b>InchiKey:</b>	NZOHNQRAGPQKMX-UHFFFAOYSA-N
<b>Formula:</b>	C7H14O2
<b>SMILES:</b>	CCC(=O)CC(C)(C)O
<b>Mol. weight [g/mol]:</b>	130.18

## Physical Properties

Property code	Value	Unit	Source
gf	-254.84	kJ/mol	Joback Method
hf	-461.37	kJ/mol	Joback Method
hfus	12.16	kJ/mol	Joback Method
hvap	53.31	kJ/mol	Joback Method
log10ws	-1.41		Crippen Method
logp	1.127		Crippen Method
mcvol	116.930	ml/mol	McGowan Method
pc	3395.98	kPa	Joback Method
rinpol	1016.00		NIST Webbook
rinpol	1016.00		NIST Webbook
tb	502.38	K	Joback Method
tc	682.23	K	Joback Method
tf	281.82	K	Joback Method
vc	0.442	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.88	J/molxK	502.38	Joback Method
cpg	279.60	J/molxK	532.36	Joback Method
cpg	289.76	J/molxK	562.33	Joback Method
cpg	299.40	J/molxK	592.31	Joback Method
cpg	308.52	J/molxK	622.28	Joback Method
cpg	317.16	J/molxK	652.26	Joback Method
cpg	325.33	J/molxK	682.23	Joback Method
dvisc	0.0242619	Paxs	281.82	Joback Method

dvisc	0.0066100	Paxs	318.58	Joback Method
dvisc	0.0023568	Paxs	355.34	Joback Method
dvisc	0.0010196	Paxs	392.10	Joback Method
dvisc	0.0005092	Paxs	428.86	Joback Method
dvisc	0.0002838	Paxs	465.62	Joback Method
dvisc	0.0001723	Paxs	502.38	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R89431&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R89431&amp;Units=SI</a>
<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>

## 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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