

# 3-hydroxy-(E)-4-nonen-2-one

<b>Inchi:</b>	InChI=1S/C9H16O2/c1-3-4-5-6-7-9(11)8(2)10/h6-7,9,11H,3-5H2,1-2H3/b7-6+
<b>InchiKey:</b>	XDBJTAHIGVPGTG-VOTSOKGWSA-N
<b>Formula:</b>	C9H16O2
<b>SMILES:</b>	CCCCC=CC(O)C(C)=O
<b>Mol. weight [g/mol]:</b>	156.22

## Physical Properties

Property code	Value	Unit	Source
gf	-163.06	kJ/mol	Joback Method
hf	-381.96	kJ/mol	Joback Method
hfus	21.43	kJ/mol	Joback Method
hvap	58.62	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	1.683		Crippen Method
mcvol	140.810	ml/mol	McGowan Method
pc	2868.87	kPa	Joback Method
ripol	1776.00		NIST Webbook
tb	555.09	K	Joback Method
tc	732.68	K	Joback Method
tf	281.86	K	Joback Method
vc	0.538	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.55	J/molxK	555.09	Joback Method
cpg	388.61	J/molxK	703.09	Joback Method
cpg	379.20	J/molxK	673.49	Joback Method
cpg	369.32	J/molxK	643.89	Joback Method
cpg	358.93	J/molxK	614.29	Joback Method
cpg	348.01	J/molxK	584.69	Joback Method
cpg	397.55	J/molxK	732.68	Joback Method
dvisc	0.0000974	Paxs	555.09	Joback Method
dvisc	0.0001614	Paxs	509.55	Joback Method

dvisc	0.0002953	Paxs	464.01	Joback Method
dvisc	0.0006163	Paxs	418.48	Joback Method
dvisc	0.0015397	Paxs	372.94	Joback Method
dvisc	0.0049622	Paxs	327.40	Joback Method
dvisc	0.0233418	Paxs	281.86	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R241128&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R241128&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>ripol:</b>	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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