

# 4-Oxononanal

<b>Inchi:</b>	InChI=1S/C9H16O2/c1-2-3-4-6-9(11)7-5-8-10/h8H,2-7H2,1H3
<b>InchiKey:</b>	MGOKSQNXXRPCMD-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O2
<b>SMILES:</b>	CCCCC(=O)CCC=O
<b>Mol. weight [g/mol]:</b>	156.22

## Physical Properties

Property code	Value	Unit	Source
gf	-203.54	kJ/mol	Joback Method
hf	-427.25	kJ/mol	Joback Method
hfus	22.95	kJ/mol	Joback Method
hvap	49.09	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.115		Crippen Method
mcvol	140.810	ml/mol	McGowan Method
pc	2643.39	kPa	Joback Method
rinpol	1203.00		NIST Webbook
rinpol	1200.00		NIST Webbook
tb	507.85	K	Joback Method
tc	687.30	K	Joback Method
tf	283.12	K	Joback Method
vc	0.562	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.04	J/molxK	507.85	Joback Method
cpg	332.44	J/molxK	537.76	Joback Method
cpg	344.30	J/molxK	567.67	Joback Method
cpg	355.63	J/molxK	597.57	Joback Method
cpg	366.45	J/molxK	627.48	Joback Method
cpg	376.76	J/molxK	657.39	Joback Method
cpg	386.59	J/molxK	687.30	Joback Method
dvisc	0.0041401	Paxs	283.12	Joback Method

dvisc	0.0021421	Paxs	320.57	Joback Method
dvisc	0.0012722	Paxs	358.03	Joback Method
dvisc	0.0008339	Paxs	395.49	Joback Method
dvisc	0.0005881	Paxs	432.94	Joback Method
dvisc	0.0004384	Paxs	470.40	Joback Method
dvisc	0.0003413	Paxs	507.85	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=U314104&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U314104&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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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