

# 7-Octen-4-one, 3,6-dimethyl

<b>Inchi:</b>	InChI=1S/C10H18O/c1-5-8(3)7-10(11)9(4)6-2/h5,8-9H,1,6-7H2,2-4H3
<b>InchiKey:</b>	JWWIOZVCPKZXRH-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	C=CC(C)CC(=O)C(C)CC
<b>Mol. weight [g/mol]:</b>	154.25

## Physical Properties

Property code	Value	Unit	Source
gf	-12.64	kJ/mol	Joback Method
hf	-247.44	kJ/mol	Joback Method
hfus	14.93	kJ/mol	Joback Method
hvap	43.15	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.814		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2363.37	kPa	Joback Method
rinpol	1125.00		NIST Webbook
ripol	1545.00		NIST Webbook
tb	477.87	K	Joback Method
tc	661.58	K	Joback Method
tf	220.63	K	Joback Method
vc	0.571	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	324.68	J/molxK	477.87	Joback Method
cpg	391.42	J/molxK	630.97	Joback Method
cpg	379.32	J/molxK	600.35	Joback Method
cpg	366.62	J/molxK	569.73	Joback Method
cpg	353.29	J/molxK	539.11	Joback Method
cpg	339.32	J/molxK	508.49	Joback Method
cpg	402.93	J/molxK	661.58	Joback Method
dvisc	0.0002440	Paxs	477.87	Joback Method

dvisc	0.0003331	Paxs	435.00	Joback Method
dvisc	0.0004867	Paxs	392.12	Joback Method
dvisc	0.0007805	Paxs	349.25	Joback Method
dvisc	0.0014286	Paxs	306.38	Joback Method
dvisc	0.0031833	Paxs	263.50	Joback Method
dvisc	0.0096846	Paxs	220.63	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R409344&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R409344&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	Non-polar retention indices
<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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