

# 6-Octenoic acid, 3,7-dimethyl-, methyl ester

<b>Other names:</b>	Methyl citronellate Methyl 3,7-dimethyl-6-octenoate Citronellic acid, methyl ester methyl 3,7-dimethyloct-6-enoate
<b>Inchi:</b>	InChI=1S/C11H20O2/c1-9(2)6-5-7-10(3)8-11(12)13-4/h6,10H,5,7-8H2,1-4H3
<b>InchiKey:</b>	ZFLPOPCZMXGUOJ-UHFFFAOYSA-N
<b>Formula:</b>	C11H20O2
<b>SMILES:</b>	<chem>COC(=O)CC(C)CCC=C(C)C</chem>
<b>Mol. weight [g/mol]:</b>	184.28
<b>CAS:</b>	2270-60-2

## Physical Properties

Property code	Value	Unit	Source
gf	-122.95	kJ/mol	Joback Method
hf	-413.02	kJ/mol	Joback Method
hfus	22.40	kJ/mol	Joback Method
hvap	48.89	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.932		Crippen Method
mcvol	168.990	ml/mol	McGowan Method
pc	2137.41	kPa	Joback Method
rinpol	1262.00		NIST Webbook
rinpol	1261.00		NIST Webbook
rinpol	1262.10		NIST Webbook
rinpol	1245.00		NIST Webbook
rinpol	1261.00		NIST Webbook
rinpol	1261.00		NIST Webbook
rinpol	1261.00		NIST Webbook
rinpol	1261.00		NIST Webbook
rinpol	1261.00		NIST Webbook
rinpol	1245.00		NIST Webbook
rinpol	1263.00		NIST Webbook
rinpol	1268.00		NIST Webbook
rinpol	1260.00		NIST Webbook
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rinpol	1264.00		NIST Webbook
rinpol	1268.00		NIST Webbook
rinpol	1281.00		NIST Webbook
rinpol	1250.00		NIST Webbook
rinpol	1259.00		NIST Webbook
rinpol	1246.00		NIST Webbook
rinpol	1260.00		NIST Webbook
rinpol	1242.00		NIST Webbook
rinpol	1245.00		NIST Webbook
ripol	1596.00		NIST Webbook
ripol	1582.00		NIST Webbook
ripol	1604.00		NIST Webbook
ripol	1571.00		NIST Webbook
ripol	1596.00		NIST Webbook
ripol	1582.00		NIST Webbook
ripol	1604.00		NIST Webbook
ripol	1596.00		NIST Webbook
ripol	1562.00		NIST Webbook
tb	530.97	K	Joback Method
tc	715.64	K	Joback Method
tf	251.85	K	Joback Method
vc	0.650	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	397.44	J/mol×K	530.97	Joback Method
cpg	412.62	J/mol×K	561.75	Joback Method
cpg	427.13	J/mol×K	592.53	Joback Method
cpg	440.98	J/mol×K	623.31	Joback Method
cpg	454.19	J/mol×K	654.08	Joback Method
cpg	466.77	J/mol×K	684.86	Joback Method
cpg	478.75	J/mol×K	715.64	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2270602&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2270602&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvac:</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>mccol:</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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