

# 2,2-Dimethylpropanoic acid, oct-3-en-2-yl ester

<b>Inchi:</b>	InChI=1S/C13H24O2/c1-6-7-8-9-10-11(2)15-12(14)13(3,4)5/h9-11H,6-8H2,1-5H3/b10-9+
<b>InchiKey:</b>	CIYFYDOFPMJDQX-MDZDMXLPSA-N
<b>Formula:</b>	C13H24O2
<b>SMILES:</b>	CCCCC=CC(C)OC(=O)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	212.33

## Physical Properties

Property code	Value	Unit	Source
gf	-94.72	kJ/mol	Joback Method
hf	-453.26	kJ/mol	Joback Method
hfus	21.48	kJ/mol	Joback Method
hvap	51.96	kJ/mol	Joback Method
log10ws	-3.85		Crippen Method
logp	3.711		Crippen Method
mcvol	197.170	ml/mol	McGowan Method
pc	1824.72	kPa	Joback Method
rinpol	1268.00		NIST Webbook
tb	573.62	K	Joback Method
tc	761.27	K	Joback Method
tf	290.77	K	Joback Method
vc	0.750	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.07	J/molxK	573.62	Joback Method
cpg	576.38	J/molxK	730.00	Joback Method
cpg	562.54	J/molxK	698.72	Joback Method
cpg	547.93	J/molxK	667.45	Joback Method
cpg	532.50	J/molxK	636.17	Joback Method
cpg	516.23	J/molxK	604.90	Joback Method
cpg	589.47	J/molxK	761.27	Joback Method
dvisc	0.0001233	Paxs	573.62	Joback Method
dvisc	0.0001727	Paxs	526.48	Joback Method

dvisc	0.0002584	Paxs	479.34	Joback Method
dvisc	0.0004222	Paxs	432.19	Joback Method
dvisc	0.0007778	Paxs	385.05	Joback Method
dvisc	0.0016996	Paxs	337.91	Joback Method
dvisc	0.0047852	Paxs	290.77	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=U299333&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299333&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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

Latest version available from:

<https://www.chemeo.com/cid/39-662-4/2-2-Dimethylpropanoic-acid-oct-3-en-2-yl-ester.pdf>

Generated by Cheméo on 2024-04-26 19:23:56.169300035 +0000 UTC m=+16448685.089877346.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.