

# 3-Methyl-2-butenic acid, oct-3-en-2-yl ester

<b>Inchi:</b>	InChI=1S/C13H22O2/c1-5-6-7-8-9-12(4)15-13(14)10-11(2)3/h8-10,12H,5-7H2,1-4H3/b9-
<b>InchiKey:</b>	UWYBWLYYGHZBJX-CMDGGGOBGSA-N
<b>Formula:</b>	C13H22O2
<b>SMILES:</b>	CCCCC=CC(C)OC(=O)C=C(C)C
<b>Mol. weight [g/mol]:</b>	210.31

## Physical Properties

Property code	Value	Unit	Source
gf	-25.89	kJ/mol	Joback Method
hf	-337.08	kJ/mol	Joback Method
hfus	27.78	kJ/mol	Joback Method
hvap	53.30	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.631		Crippen Method
mcvol	192.870	ml/mol	McGowan Method
pc	1885.44	kPa	Joback Method
rinpol	1411.00		NIST Webbook
rinpol	1411.00		NIST Webbook
tb	580.89	K	Joback Method
tc	768.98	K	Joback Method
tf	269.31	K	Joback Method
vc	0.743	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.68	J/mol×K	580.89	Joback Method
cpg	492.79	J/mol×K	612.24	Joback Method
cpg	508.11	J/mol×K	643.59	Joback Method
cpg	522.67	J/mol×K	674.94	Joback Method
cpg	536.50	J/mol×K	706.28	Joback Method
cpg	549.63	J/mol×K	737.63	Joback Method
cpg	562.10	J/mol×K	768.98	Joback Method

# Sources

<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=U299312&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299312&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>h vap:</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>r in pol:</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.cheméo.com/cid/83-192-7/3-Methyl-2-butenic-acid-oct-3-en-2-yl-ester.pdf>

Generated by Cheméo on 2024-04-18 22:35:39.584347695 +0000 UTC m=+15768988.504925007.

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