

# Oct-3-enoic acid, oct-3-en-2-yl ester

<b>Inchi:</b>	InChI=1S/C16H28O2/c1-4-6-8-10-12-14-16(17)18-15(3)13-11-9-7-5-2/h10-13,15H,4-9,14
<b>InchiKey:</b>	DHMLVAHJCQWZQK-DCIPZJNNSA-N
<b>Formula:</b>	C16H28O2
<b>SMILES:</b>	CCCCC=CCC(=O)OC(C)C=CCCC
<b>Mol. weight [g/mol]:</b>	252.39

## Physical Properties

Property code	Value	Unit	Source
gf	7.92	kJ/mol	Joback Method
hf	-389.21	kJ/mol	Joback Method
hfus	36.86	kJ/mol	Joback Method
hvap	59.89	kJ/mol	Joback Method
log10ws	-5.20		Crippen Method
logp	4.801		Crippen Method
mvol	235.140	ml/mol	McGowan Method
pc	1483.85	kPa	Joback Method
rinpol	1688.00		NIST Webbook
rinpol	1688.00		NIST Webbook
tb	649.65	K	Joback Method
tc	830.18	K	Joback Method
tf	317.08	K	Joback Method
vc	0.909	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	634.54	J/molxK	649.65	Joback Method
cpg	651.88	J/molxK	679.74	Joback Method
cpg	668.39	J/molxK	709.83	Joback Method
cpg	684.10	J/molxK	739.91	Joback Method
cpg	699.05	J/molxK	770.00	Joback Method
cpg	713.26	J/molxK	800.09	Joback Method
cpg	726.78	J/molxK	830.18	Joback Method
dvisc	0.0028040	Paxs	317.08	Joback Method

dvisc	0.0010102	Paxs	372.51	Joback Method
dvisc	0.0004741	Paxs	427.94	Joback Method
dvisc	0.0002647	Paxs	483.37	Joback Method
dvisc	0.0001666	Paxs	538.79	Joback Method
dvisc	0.0001143	Paxs	594.22	Joback Method
dvisc	0.0000836	Paxs	649.65	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=U406950&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406950&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.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>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>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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