

# 7,10,13-Hexadecatrienoic acid, methyl ester

<b>Other names:</b>	Methyl 7,10,13-hexadecatrienoate
<b>Inchi:</b>	InChI=1S/C17H28O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17(18)19-2/h4-5,7-8,10-11
<b>InchiKey:</b>	DUOCBVNCDAEWTB-JSIPCRQOSA-N
<b>Formula:</b>	C17H28O2
<b>SMILES:</b>	CCC=CCC=CCC=CCCCC(=O)OC
<b>Mol. weight [g/mol]:</b>	264.40
<b>CAS:</b>	56554-30-4

## Physical Properties

Property code	Value	Unit	Source
gf	99.00	kJ/mol	Joback Method
hf	-287.35	kJ/mol	Joback Method
hfus	43.18	kJ/mol	Joback Method
hvap	62.47	kJ/mol	Joback Method
log10ws	-5.36		Crippen Method
logp	4.969		Crippen Method
mcvol	244.930	ml/mol	McGowan Method
pc	1426.15	kPa	Joback Method
ripol	2380.00		NIST Webbook
ripol	2325.00		NIST Webbook
ripol	2380.00		NIST Webbook
tb	677.13	K	Joback Method
tc	859.74	K	Joback Method
tf	338.27	K	Joback Method
vc	0.952	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	667.53	J/molxK	677.13	Joback Method
cpg	684.55	J/molxK	707.56	Joback Method
cpg	700.73	J/molxK	738.00	Joback Method
cpg	716.12	J/molxK	768.43	Joback Method
cpg	730.77	J/molxK	798.87	Joback Method

cpg	744.71	J/molxK	829.30	Joback Method
cpg	758.01	J/molxK	859.74	Joback Method
dvisc	0.0018095	Paxs	338.27	Joback Method
dvisc	0.0007111	Paxs	394.75	Joback Method
dvisc	0.0003531	Paxs	451.22	Joback Method
dvisc	0.0002049	Paxs	507.70	Joback Method
dvisc	0.0001325	Paxs	564.18	Joback Method
dvisc	0.0000928	Paxs	620.65	Joback Method
dvisc	0.0000690	Paxs	677.13	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=C56554304&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56554304&amp;Units=SI</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>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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