

# Methyl 11,14-eicosadienoate

<b>Inchi:</b>	InChI=1S/C22H40O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22(23)24-25
<b>InchiKey:</b>	VPVGSRIJUIEFPI-MVKOLZDDSA-N
<b>Formula:</b>	C22H40O2
<b>SMILES:</b>	CCCCCCC=CCC=CCCCCCCCCCCC(=O)OC
<b>Mol. weight [g/mol]:</b>	336.55

## Physical Properties

Property code	Value	Unit	Source
gf	60.88	kJ/mol	Joback Method
hf	-507.77	kJ/mol	Joback Method
hfus	55.93	kJ/mol	Joback Method
hvap	73.64	kJ/mol	Joback Method
log10ws	-7.60		Crippen Method
logp	7.143		Crippen Method
mcvol	319.680	ml/mol	McGowan Method
pc	988.88	kPa	Joback Method
rinpol	2118.00		NIST Webbook
rinpol	2118.00		NIST Webbook
rinpol	2118.00		NIST Webbook
tb	787.37	K	Joback Method
tc	968.88	K	Joback Method
tf	399.70	K	Joback Method
vc	1.252	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	982.44	J/molxK	787.37	Joback Method
cpg	1001.90	J/molxK	817.62	Joback Method
cpg	1020.40	J/molxK	847.87	Joback Method
cpg	1038.00	J/molxK	878.13	Joback Method
cpg	1054.74	J/molxK	908.38	Joback Method
cpg	1070.67	J/molxK	938.63	Joback Method
cpg	1085.84	J/molxK	968.88	Joback Method

dvisc	0.0011728	Paxs	399.70	Joback Method
dvisc	0.0004577	Paxs	464.31	Joback Method
dvisc	0.0002248	Paxs	528.92	Joback Method
dvisc	0.0001289	Paxs	593.53	Joback Method
dvisc	0.0000824	Paxs	658.15	Joback Method
dvisc	0.0000571	Paxs	722.76	Joback Method
dvisc	0.0000420	Paxs	787.37	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=R74828&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R74828&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>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>mvol:</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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