

# Icosa-5,8,11,14-tetraenoic acid tetradec-9-enyl ester

Inchi:	InChI=1S/C34H58O2/c1-3-5-7-9-11-13-15-17-18-19-20-21-22-24-26-28-30-32-34(35)36-
InchiKey:	WMEYKOAPDBHGDW-NXIMTCEVSA-N
Formula:	C34H58O2
SMILES:	CCCC=CCCCCCCCOC(=O)CCCC=CCC=CCC=CCC=CCCCC
Mol. weight [g/mol]:	498.82

## Physical Properties

Property code	Value	Unit	Source
gf	402.58	kJ/mol	Joback Method
hf	-403.79	kJ/mol	Joback Method
hfus	87.61	kJ/mol	Joback Method
hvap	100.22	kJ/mol	Joback Method
log10ws	-12.19		Crippen Method
logp	11.152		Crippen Method
mcvol	475.860	ml/mol	McGowan Method
pc	573.43	kPa	Joback Method
rinpol	3452.29		NIST Webbook
rinpol	3452.29		NIST Webbook
tb	1074.41	K	Joback Method
tc	1341.62	K	Joback Method
tf	519.70	K	Joback Method
vc	1.863	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1678.95	J/molxK	1074.41	Joback Method
cpg	1707.81	J/molxK	1118.95	Joback Method
cpg	1735.82	J/molxK	1163.48	Joback Method
cpg	1763.29	J/molxK	1208.02	Joback Method
cpg	1790.51	J/molxK	1252.55	Joback Method
cpg	1817.78	J/molxK	1297.09	Joback Method
cpg	1845.41	J/molxK	1341.62	Joback Method
dvisc	0.0001984	Paxs	519.70	Joback Method

dvisc	0.0000665	Paxs	612.15	Joback Method
dvisc	0.0000297	Paxs	704.60	Joback Method
dvisc	0.0000160	Paxs	797.05	Joback Method
dvisc	0.0000098	Paxs	889.51	Joback Method
dvisc	0.0000066	Paxs	981.96	Joback Method
dvisc	0.0000047	Paxs	1074.41	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=R436663&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R436663&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>
<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>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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