

# Icosanoic acid tetradec-9-enyl ester, Z

<b>Inchi:</b>	InChI=1S/C34H66O2/c1-3-5-7-9-11-13-15-17-18-19-20-21-22-24-26-28-30-32-34(35)36-
<b>InchiKey:</b>	NGFWMWUDSHTEQU-ZRDIBKRKSA-N
<b>Formula:</b>	C34H66O2
<b>SMILES:</b>	CCCC=CCCCCCCCOC(=O)CCCCCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	506.89

## Physical Properties

Property code	Value	Unit	Source
gf	81.70	kJ/mol	Joback Method
hf	-872.67	kJ/mol	Joback Method
hfus	86.81	kJ/mol	Joback Method
hvap	100.39	kJ/mol	Joback Method
log10ws	-12.77		Crippen Method
logp	12.048		Crippen Method
mcvol	493.060	ml/mol	McGowan Method
pc	520.31	kPa	Joback Method
rinpol	3541.84		NIST Webbook
rinpol	3541.84		NIST Webbook
tb	1057.77	K	Joback Method
tc	1345.09	K	Joback Method
tf	540.02	K	Joback Method
vc	1.944	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1790.65	J/molxK	1057.77	Joback Method
cpg	1920.99	J/molxK	1297.21	Joback Method
cpg	1898.79	J/molxK	1249.32	Joback Method
cpg	1874.90	J/molxK	1201.43	Joback Method
cpg	1849.08	J/molxK	1153.54	Joback Method
cpg	1821.08	J/molxK	1105.66	Joback Method
cpg	1941.76	J/molxK	1345.09	Joback Method
dvisc	0.0000078	Paxs	1057.77	Joback Method

dvisc	0.0000108	Paxs	971.48	Joback Method
dvisc	0.0000159	Paxs	885.19	Joback Method
dvisc	0.0000255	Paxs	798.89	Joback Method
dvisc	0.0000458	Paxs	712.60	Joback Method
dvisc	0.0000966	Paxs	626.31	Joback Method
dvisc	0.0002583	Paxs	540.02	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R436658&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R436658&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

## 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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