

# Octadec-9-enoic acid hexadec-7-enyl ester, Z,Z

Inchi:	InChI=1S/C34H64O2/c1-3-5-7-9-11-13-15-17-19-20-22-24-26-28-30-32-34(35)36-33-31-
InchiKey:	JYGMQZMUAQBEDK-UFOVYREPSA-N
Formula:	C34H64O2
SMILES:	CCCCCCCC=CCCCCCCC(=O)OCCCCC=CCCCCCCC
Mol. weight [g/mol]:	504.87

## Physical Properties

Property code	Value	Unit	Source
gf	161.92	kJ/mol	Joback Method
hf	-755.45	kJ/mol	Joback Method
hfus	87.01	kJ/mol	Joback Method
hvap	100.35	kJ/mol	Joback Method
log10ws	-12.62		Crippen Method
logp	11.824		Crippen Method
mvol	488.760	ml/mol	McGowan Method
pc	532.87	kPa	Joback Method
rinpol	3502.79		NIST Webbook
rinpol	3502.79		NIST Webbook
tb	1061.93	K	Joback Method
tc	1343.48	K	Joback Method
tf	534.94	K	Joback Method
vc	1.923	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1762.72	J/molxK	1061.93	Joback Method
cpg	1894.89	J/molxK	1296.55	Joback Method
cpg	1871.38	J/molxK	1249.63	Joback Method
cpg	1846.68	J/molxK	1202.70	Joback Method
cpg	1820.51	J/molxK	1155.78	Joback Method
cpg	1792.61	J/molxK	1108.85	Joback Method
cpg	1917.46	J/molxK	1343.48	Joback Method
dvisc	0.0000069	Paxs	1061.93	Joback Method

dvisc	0.0000096	Paxs	974.10	Joback Method
dvisc	0.0000141	Paxs	886.27	Joback Method
dvisc	0.0000227	Paxs	798.43	Joback Method
dvisc	0.0000411	Paxs	710.60	Joback Method
dvisc	0.0000880	Paxs	622.77	Joback Method
dvisc	0.0002416	Paxs	534.94	Joback Method

## Sources

<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=R436801&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R436801&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>

## 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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