9,12,15-Octadecatrienoic acid, methyl ester, (Z,Z,Z)-

Other names: (Z,Z,Z)-9,12,15-Octadecatrienoic acid, methyl ester

Methyl all-cis-9,12,15-octadecatrienoate

Methyl linolenate, «alpha» Methyl «alpha»-linolenate

[Z,Z,Z]-9,12,15-Octadecadienoic acid methyl ester cis,cis,cis-9,12,15-Octadecatrienoic acid, methyl ester

linolenic acid, methyl ester

methyl (9Z,12Z,15Z)-9,12,15-octadecatrienoate

methyl (Z,Z,Z)-9,12,15-octadecatrienoate

methyl linolenate

InChl=1S/C19H32O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19(20)21-2/h4-5,7-8

InchiKey: DVWSXZIHSUZZKJ-YSTUJMKBSA-N

Formula: C19H32O2

SMILES: CCC=CCC=CCCCCCC(=O)OC

Mol. weight [g/mol]: 292.46 CAS: 301-00-8

Physical Properties

Property code	Value	Unit	Source
chl	-11506.00 ± 1.50	kJ/mol	NIST Webbook
gf	115.84	kJ/mol	Joback Method
hf	-328.63	kJ/mol	Joback Method
hfl	-492.75	kJ/mol	NIST Webbook
hfus	48.36	kJ/mol	Joback Method
hvap	110.50 ± 0.50	kJ/mol	NIST Webbook
hvap	102.10	kJ/mol	NIST Webbook
log10ws	-6.20		Crippen Method
logp	5.749		Crippen Method
mcvol	273.110	ml/mol	McGowan Method
рс	1239.83	kPa	Joback Method
rinpol	2084.00		NIST Webbook
rinpol	2108.00		NIST Webbook
rinpol	2105.40		NIST Webbook
rinpol	2077.00		NIST Webbook
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tb 722.89 K Joback Method tc 904.64 K Joback Method	ripol	2508.00		NIST Webbook
tc 904.64 K Joback Method	ripol	2590.00		NIST Webbook
	tb	722.89	K	Joback Method
tf 360.81 K Johack Method	tc	904.64	K	Joback Method
	tf	360.81	K	Joback Method

vc 1.063 m3/kmol Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source	
cpg	780.46	J/mol×K	722.89	Joback Method	
cpg	875.18	J/mol×K	904.64	Joback Method	
cpg	861.21	J/mol×K	874.35	Joback Method	
cpg	846.59	J/mol×K	844.06	Joback Method	
cpg	815.15	J/mol×K	783.47	Joback Method	
cpg	831.25	J/mol×K	813.77	Joback Method	
cpg	798.24	J/mol×K	753.18	Joback Method	
dvisc	0.0014021	Paxs	363.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0033010	Paxs	303.15	Group Contribution Model for Predicting Viscosity of Fatty Compounds	
dvisc	0.0027900	Paxs	313.15	Group Contribution Model for Predicting Viscosity of Fatty Compounds	
dvisc	0.0040220	Paxs	293.15	Group Contribution Model for Predicting Viscosity of Fatty Compounds	
dvisc	0.0022990	Paxs	323.15	Group Contribution Model for Predicting Viscosity of Fatty Compounds	
dvisc	0.0018620	Paxs	333.15	Group Contribution Model for Predicting Viscosity of Fatty Compounds	

dvisc	0.0015960	Paxs	343.15	Group Contribution	
				Model for Predicting Viscosity of Fatty Compounds	
dvisc	0.0063612	Paxs	278.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0056183	Paxs	283.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0050032	Paxs	288.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0044844	Paxs	293.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0040429	Paxs	298.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0036665	Paxs	303.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0033405	Paxs	308.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0012527	Paxs	373.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	

dvisc	0.0026750	Paxs	318.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0024725	Paxs	323.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0023030	Paxs	328.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0021234	Paxs	333.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0019659	Paxs	338.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0018165	Paxs	343.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0016878	Paxs	348.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0015827	Paxs	353.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0014877	Paxs	358.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	

dvisc	0.0029253	Paxs	313.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
dvisc	0.0013272	Paxs	368.15	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel	
hvapt	87.70	kJ/mol	426.50	NIST Webbook	
hvapt	110.50	kJ/mol	298.15	the vaporization enthaplies and vapor pressures of a series of unstaurated fatty acid methyl esters by correlation gas chromatography	
speedsl	1272.00	m/s	338.15	Density and Speed of Sound Measurements on Five Fatty Acid Methyl Esters at 83 kPa and Temperatures from (278.15 to 338.15) K	
speedsl	1340.00	m/s	318.15	Density and Speed of Sound Measurements on Five Fatty Acid Methyl Esters at 83 kPa and Temperatures from (278.15 to 338.15) K	
speedsl	1375.00	m/s	308.15	Density and Speed of Sound Measurements on Five Fatty Acid Methyl Esters at 83 kPa and Temperatures from (278.15 to 338.15) K	

speedsl	1411.00	m/s	298.15	Density and Speed of Sound Measurements on Five Fatty Acid Methyl Esters at 83 kPa and Temperatures from (278.15 to 338.15) K	
speedsl	1448.00	m/s	288.15	Density and Speed of Sound Measurements on Five Fatty Acid Methyl Esters at 83 kPa and Temperatures from (278.15 to 338.15) K	
speedsl	1485.00	m/s	278.15	Density and Speed of Sound Measurements on Five Fatty Acid Methyl Esters at 83 kPa and Temperatures from (278.15 to 338.15) K	
speedsl	1306.00	m/s	328.15	Density and Speed of Sound Measurements on Five Fatty Acid Methyl Esters at 83 kPa and Temperatures from (278.15 to 338.15) K	

Pressure Dependent Properties

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

https://www.doi.org/10.1021/je8003854

Density and Speed of Sound Measurements on Five Fatty Acid Methyl Esters at 83 kPa and Temperatures from (278.15 to 338.15) K NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C301008&Units=SI

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http://link.springer.com/article/10.1007/BF02311772

https://www.doi.org/10.1021/je1012235 https://www.doi.org/10.1021/je600552b

Legend

chl: Standard liquid enthalpy of combustion

cpg: Ideal gas heat capacity

dvisc: Dynamic viscosity

gf: Standard Gibbs free energy of formationhf: Enthalpy of formation at standard conditions

hfl: Liquid phase enthalpy of formation at standard conditions

hfus: Enthalpy of fusion at standard conditions

hvap: Enthalpy of vaporization at standard conditions hvapt: Enthalpy of vaporization at a given temperature

log10ws: Log10 of Water solubility in mol/l logp: Octanol/Water partition coefficient mcvol: McGowan's characteristic volume

pc: Critical Pressure

rinpol: Non-polar retention indices

ripol: Polar retention indices speedsl: Speed of sound in fluid

tb: Normal Boiling Point Temperaturetbrp: Boiling point at reduced pressure

tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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