

# Methyl stearate

<b>Other names:</b>	28:0, Me ester Emery 2218 Kemester 4516 Kemester 9018 Kemester 9718 Metholene 2218 Methyl ester of octadecanoic acid Methyl n-octadecanoate NSC 9418 methyl octadecanoate n-Octadecanoic acid, methyl ester octadecanoic acid, methyl ester stearic acid, methyl ester
<b>Inchi:</b>	InChI=1S/C19H38O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19(20)21-2/h3-18H2
<b>InchiKey:</b>	HPEUJPJOZXNMSJ-UHFFFAOYSA-N
<b>Formula:</b>	C19H38O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCC(=O)OC
<b>Mol. weight [g/mol]:</b>	298.50
<b>CAS:</b>	112-61-8

## Physical Properties

Property code	Value	Unit	Source
chs	-11962.00 ± 0.40	kJ/mol	NIST Webbook
gf	-124.82	kJ/mol	Joback Method
hf	-680.29	kJ/mol	Joback Method
hfus	66.35	kJ/mol	Heat Capacity Measurements of 13 Methyl Esters of n-Carboxylic Acids from Methyloctanoate to Methyleicosanoate between 5 K and 350 K
hvap	109.50 ± 2.70	kJ/mol	NIST Webbook
hvap	106.20	kJ/mol	NIST Webbook
hvap	105.90 ± 1.40	kJ/mol	NIST Webbook
log10ws	-6.64		Crippen Method
logp	6.421		Crippen Method
mcvol	286.010	ml/mol	McGowan Method
pc	1114.08	kPa	Joback Method

rinpol	2112.00	NIST Webbook
rinpol	2113.00	NIST Webbook
rinpol	2114.00	NIST Webbook
rinpol	2102.00	NIST Webbook
rinpol	2113.00	NIST Webbook
rinpol	2113.00	NIST Webbook
rinpol	2126.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2140.00	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2116.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2135.00	NIST Webbook
rinpol	2109.00	NIST Webbook
rinpol	2117.00	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2110.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2133.00	NIST Webbook
rinpol	2138.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2141.00	NIST Webbook
rinpol	2135.00	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2109.00	NIST Webbook
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rinpol	2109.00	NIST Webbook
rinpol	2109.49	NIST Webbook
rinpol	2109.00	NIST Webbook
rinpol	2116.00	NIST Webbook
rinpol	2108.00	NIST Webbook
rinpol	2109.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2098.00	NIST Webbook
rinpol	2123.10	NIST Webbook
rinpol	2127.10	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2111.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2139.00	NIST Webbook

rinpol	2110.00	NIST Webbook
rinpol	2114.00	NIST Webbook
rinpol	2106.00	NIST Webbook
rinpol	2109.00	NIST Webbook
rinpol	2127.00	NIST Webbook
rinpol	2137.00	NIST Webbook
rinpol	2122.00	NIST Webbook
rinpol	2138.00	NIST Webbook
rinpol	2126.00	NIST Webbook
rinpol	2141.00	NIST Webbook
rinpol	2133.00	NIST Webbook
rinpol	2124.00	NIST Webbook
rinpol	2109.20	NIST Webbook
rinpol	2137.00	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2110.00	NIST Webbook
rinpol	2124.00	NIST Webbook
rinpol	2129.30	NIST Webbook
rinpol	2128.00	NIST Webbook
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rinpol	2110.00	NIST Webbook
rinpol	2111.00	NIST Webbook
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rinpol	2130.00	NIST Webbook
rinpol	2139.00	NIST Webbook
rinpol	2104.00	NIST Webbook
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rinpol	2130.00	NIST Webbook
rinpol	2109.00	NIST Webbook
rinpol	2110.00	NIST Webbook
rinpol	2107.00	NIST Webbook
rinpol	2111.00	NIST Webbook
rinpol	2112.00	NIST Webbook
rinpol	2102.00	NIST Webbook
rinpol	2116.00	NIST Webbook
rinpol	2116.00	NIST Webbook

rinpol	2107.10	NIST Webbook
rinpol	2126.00	NIST Webbook
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rinpol	2108.00	NIST Webbook
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rinpol	2130.00	NIST Webbook
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rinpol	2134.00	NIST Webbook
rinpol	2119.00	NIST Webbook
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rinpol	2109.00	NIST Webbook
rinpol	2109.00	NIST Webbook
rinpol	2098.00	NIST Webbook
rinpol	2112.00	NIST Webbook
rinpol	2115.00	NIST Webbook
rinpol	349.48	NIST Webbook
rinpol	352.84	NIST Webbook
rinpol	362.20	NIST Webbook
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rinpol	362.20	NIST Webbook
rinpol	351.30	NIST Webbook
rinpol	351.38	NIST Webbook
rinpol	351.38	NIST Webbook
rinpol	2099.80	NIST Webbook
rinpol	2105.80	NIST Webbook
rinpol	2102.00	NIST Webbook
rinpol	2123.10	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2106.00	NIST Webbook
rinpol	2138.00	NIST Webbook
rinpol	2109.20	NIST Webbook

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rinpol	2111.00	NIST Webbook
rinpol	2110.00	NIST Webbook
rinpol	2116.00	NIST Webbook
rinpol	2105.80	NIST Webbook
rinpol	2126.00	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2104.50	NIST Webbook
rinpol	2103.30	NIST Webbook
rinpol	2102.10	NIST Webbook
rinpol	2101.00	NIST Webbook
rinpol	2099.80	NIST Webbook
rinpol	2112.00	NIST Webbook
rinpol	351.38	NIST Webbook
ripol	2419.00	NIST Webbook
ripol	2418.00	NIST Webbook
ripol	2426.00	NIST Webbook
ripol	2409.00	NIST Webbook
ripol	2429.00	NIST Webbook
ripol	2410.00	NIST Webbook
ripol	2445.00	NIST Webbook
ripol	2396.00	NIST Webbook
ripol	2389.00	NIST Webbook
ripol	2409.00	NIST Webbook
ripol	2415.00	NIST Webbook
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ripol	2424.00	NIST Webbook
ripol	2419.00	NIST Webbook
ripol	2422.00	NIST Webbook
ripol	2412.00	NIST Webbook
ripol	2433.00	NIST Webbook
ripol	2405.00	NIST Webbook
ripol	2409.00	NIST Webbook
ripol	2409.00	NIST Webbook
ripol	2415.00	NIST Webbook
ripol	2405.00	NIST Webbook

ripol	2434.00		NIST Webbook
ripol	2418.00		NIST Webbook
ripol	2429.00		NIST Webbook
ripol	2442.00		NIST Webbook
tb	710.41	K	Joback Method
tc	785.00	K	Vapor-liquid critical point measurements of fifteen compounds by the pulse-heating method
tf	310.00 ± 0.50	K	NIST Webbook
tf	312.15 ± 0.35	K	NIST Webbook
tf	311.20 ± 1.00	K	NIST Webbook
tf	312.10 ± 0.50	K	NIST Webbook
vc	1.123	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	848.69	J/mol×K	710.41	Joback Method
cpg	886.25	J/mol×K	766.91	Joback Method
cpg	903.75	J/mol×K	795.15	Joback Method
cpg	920.41	J/mol×K	823.40	Joback Method
cpg	936.27	J/mol×K	851.65	Joback Method
cpg	951.34	J/mol×K	879.90	Joback Method
cpg	867.91	J/mol×K	738.66	Joback Method
dvisc	0.0024477	Paxs	348.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0022504	Paxs	353.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0026724	Paxs	343.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0019217	Paxs	363.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0029293	Paxs	338.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters

dvisc	0.0049862	Paxs	313.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0032252	Paxs	333.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0035684	Paxs	328.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0039645	Paxs	323.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0044348	Paxs	318.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0020762	Paxs	358.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
hfust	61.70	kJ/mol	310.90	NIST Webbook
hfust	64.40	kJ/mol	310.00	NIST Webbook
hfust	64.40	kJ/mol	310.90	NIST Webbook
hfust	71.10	kJ/mol	311.00	NIST Webbook
hfust	19.23	kJ/mol	310.93	NIST Webbook
hsubt	158.20 ± 2.50	kJ/mol	304.50	NIST Webbook
hvapt	90.20	kJ/mol	353.00	Express thermo-gravimetric method for the vaporization enthalpies appraisal for very low volatile molecular and ionic compounds.
hvapt	107.90	kJ/mol	298.00	A Comparison of Results by Correlation Gas Chromatography with Another Gas Chromatographic Retention Time Technique. The Effects of Retention Time Coincidence on Vaporization Enthalpy and Vapor Pressure
hvapt	98.00	kJ/mol	350.00	NIST Webbook
hvapt	90.00 ± 0.30	kJ/mol	401.00	NIST Webbook
hvapt	75.40	kJ/mol	498.00	NIST Webbook
hvapt	83.20	kJ/mol	455.50	NIST Webbook

hvapt	106.10	kJ/mol	298.15	the vaporization enthalpies and vapor pressures of a series of unsaturated fatty acid methyl esters by correlation gas chromatography
pvap	1.91e-04	kPa	344.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.12e-04	kPa	345.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.23e-04	kPa	345.93	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.23e-04	kPa	345.93	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.85e-04	kPa	348.42	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.88e-04	kPa	348.57	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics



pvap	3.61e-04	kPa	350.90	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	5.74e-04	kPa	355.89	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	7.24e-04	kPa	358.52	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	8.97e-04	kPa	360.89	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.13e-03	kPa	363.49	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.18e-03	kPa	363.98	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.39e-03	kPa	365.92	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics

pvap	1.46e-03	kPa	366.47	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.77e-04	kPa	343.60	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.80e-03	kPa	368.97	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.11e-03	kPa	370.93	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.22e-03	kPa	371.46	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.74e-04	kPa	343.47	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.71e-03	kPa	373.95	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics

pvap	2.71e-03	kPa	373.96	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	3.05e-03	kPa	375.45	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	3.16e-03	kPa	375.93	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	3.29e-03	kPa	376.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	3.57e-03	kPa	377.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	4.51e-03	kPa	380.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	4.50e-03	kPa	380.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics

pvap	4.85e-03	kPa	381.43	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	4.89e-03	kPa	381.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	4.90e-03	kPa	381.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	5.24e-03	kPa	382.43	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	5.90e-03	kPa	383.93	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	5.90e-03	kPa	383.94	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	6.60e-03	kPa	385.43	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics

pvap	6.57e-03	kPa	385.43	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	7.09e-03	kPa	386.43	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	7.09e-03	kPa	386.43	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	8.52e-03	kPa	388.93	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	0.01	kPa	391.41	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	0.10	kPa	427.50	Isobaric Vapor Liquid Equilibrium of the Mixture of Methyl Palmitate and Methyl Stearate at 0.1 kPa, 1 kPa, 5 kPa, and 10 kPa
pvap	1.00	kPa	472.20	Isobaric Vapor Liquid Equilibrium of the Mixture of Methyl Palmitate and Methyl Stearate at 0.1 kPa, 1 kPa, 5 kPa, and 10 kPa

pvap	5.00	kPa	512.50	Isobaric Vapor Liquid Equilibrium of the Mixture of Methyl Palmitate and Methyl Stearate at 0.1 kPa, 1 kPa, 5 kPa, and 10 kPa
pvap	10.00	kPa	535.50	Isobaric Vapor Liquid Equilibrium of the Mixture of Methyl Palmitate and Methyl Stearate at 0.1 kPa, 1 kPa, 5 kPa, and 10 kPa
pvap	1.74e-04	kPa	343.46	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.65e-04	kPa	342.97	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.50e-04	kPa	341.96	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.38e-04	kPa	341.10	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.35e-04	kPa	340.98	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics

pvap	1.29e-04	kPa	340.47	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.18e-04	kPa	339.50	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.01e-04	kPa	338.02	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	9.04e-05	kPa	336.99	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	7.76e-05	kPa	335.51	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	7.00e-05	kPa	334.55	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	6.01e-05	kPa	333.07	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics

pvap	5.36e-05	kPa	332.04	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	4.58e-05	kPa	330.56	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	4.07e-05	kPa	329.60	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.61e-05	kPa	325.63	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.72e-03	kPa	368.46	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	2.59e-03	kPa	373.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
pvap	1.96e-05	kPa	323.15	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics



speedsl	1265.00	m/s	333.15	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	1282.00	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
speedsl	1299.00	m/s	323.15	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	1317.00	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	1248.00	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

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
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tbp	475.97	K	1.20	Vapour liquid equilibria of monocaprylin plus palmitic acid or methyl stearate at P = (1.20 and 2.50) kPa by using DSC technique
tbp	493.38	K	2.50	Vapour liquid equilibria of monocaprylin plus palmitic acid or methyl stearate at P = (1.20 and 2.50) kPa by using DSC technique
tbrp	488.20	K	2.00	NIST Webbook

## Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C112618&Units=SI>

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

Phase behaviour of high molecular mass methyl esters in supercritical fluids

<https://www.doi.org/10.1016/j.fluid.2011.08.015>

Acids methyl esters:

<https://www.doi.org/10.1016/j.jct.2019.01.007>

Complementary measurements and

<https://www.doi.org/10.1021/je3003699>

isobaric vapour-liquid equilibrium of the mixture of methyl palmitate and methyl stearate at 0.1 kPa, 1 kPa, 5 kPa, and 10 kPa :

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

the vaporization enthalpies and vapor pressures of a series of unstaured fatty acid methyl esters by correlation

<https://www.doi.org/10.1016/j.tca.2007.02.008>

Joback Method:

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

Vapour liquid equilibria of

<https://www.doi.org/10.1016/j.jct.2015.07.033>

monocaprylin plus palmitic acid or

<https://www.doi.org/10.1021/acs.jced.5b00444>

monocaprylin plus palmitic acid or

<https://www.doi.org/10.1021/je0499364>

Comparison of Gas Chromatography with

<https://www.doi.org/10.1016/j.fluid.2014.07.038>

Dynamic Viscosity Measurements of 13

<https://www.doi.org/10.1016/j.jct.2015.07.033>

Methyl Esters of the Carboxylic Acids

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

and their influence on

<https://www.doi.org/10.1021/je100042c>

measurements of fifteen compounds

<https://www.doi.org/10.1016/j.tca.2012.03.018>

using the pulse-heating method:

Measurements on Five Fatty Acid

<https://www.doi.org/10.1021/je100042c>

Densities and Viscosities of Fatty Acid

<https://www.doi.org/10.1016/j.tca.2012.03.018>

Methyl and Ethyl Esters: 15 to 338.15)

Express thermo-gravimetric method for

the vaporization enthalpies appraisal

for very low volatile molecular and

ionic compounds.:

## Legend

chs: Standard solid enthalpy of combustion

cpg: Ideal gas heat capacity

dvisc: 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>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>pvap:</b>	Vapor pressure
<b>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</b>	Polar retention indices
<b>speedsl:</b>	Speed of sound in fluid
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbp:</b>	Boiling point at given pressure
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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