Methyl stearate

Other names:	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
Inchi:	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
InchiKey:	HPEUJPJOZXNMSJ-UHFFFAOYSA-N
Formula:	C19H38O2
SMILES:	CCCCCCCCCCCCCCCCCC(=O)OC
Mol. weight [g/mol]:	298.50
CAS:	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	106.20	kJ/mol	NIST Webbook
hvap	109.50 ± 2.70	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	362.20	NIST Webbook
rinpol	2111.00	NIST Webbook
rinpol	2104.00	NIST Webbook
rinpol	2112.00	NIST Webbook
rinpol	2129.30	NIST Webbook
rinpol	2109.20	NIST Webbook
rinpol	2138.00	NIST Webbook
rinpol	2106.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2123.10	NIST Webbook
rinpol	2102.00	NIST Webbook
rinpol	2105.80	NIST Webbook
rinpol	2099.80	NIST Webbook
rinpol	2101.00	NIST Webbook
rinpol	351.38	NIST Webbook
rinpol	351.38	NIST Webbook
rinpol	351.30	NIST Webbook
rinpol	362.20	NIST Webbook
rinpol	2110.00	NIST Webbook
rinpol	362.20	NIST Webbook
rinpol	352.84	NIST Webbook
rinpol	349.48	NIST Webbook
rinpol	2115.00	NIST Webbook
rinpol	2112.00	NIST Webbook
rinpol	2098.00	NIST Webbook
rinpol	2109.00	NIST Webbook
rinpol	2116.00	NIST Webbook
rinpol	2109.00	NIST Webbook
rinpol	2129.00	NIST Webbook
rinpol	351.38	NIST Webbook
rinpol	2140.00	NIST Webbook
rinpol	2127.00	NIST Webbook
rinpol	2119.00	NIST Webbook
rinpol	2134.00	NIST Webbook
rinpol	2126.00	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2099.80	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2102.10	NIST Webbook
rinpol	2103.30	NIST Webbook
rinpol	2104.50	NIST Webbook
rinpol	2105.80	NIST Webbook
rinpol	2107.10	NIST Webbook
rinpol	2109.00	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	2112.00	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
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rinpol	2109.00	NIST Webbook
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rinpol	2109.49	NIST Webbook
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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	2128.00	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
rinpol	2128.00	NIST Webbook
rinpol	2110.00	NIST Webbook
rinpol	2111.00	NIST Webbook
rinpol	2112.00	NIST Webbook
rinpol	2117.00	NIST Webbook
rinpol	2111.00	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2139.00	NIST Webbook
rinpol	2104.00	NIST Webbook
rinpol	2125.00	NIST Webbook
rinpol	2126.00	NIST Webbook
rinpol	2127.00	NIST Webbook
rinpol	2133.00	NIST Webbook
rinpol	2111.00	NIST Webbook
rinpol	2108.00	NIST Webbook
rinpol	2105.00	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2109.00	NIST Webbook
rinpol	2110.00	NIST Webbook
rinpol	2107.00	NIST Webbook
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rinpol	2121.00	NIST Webbook
rinpol	2130.00	NIST Webbook
rinpol	2125.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2101.00	NIST Webbook
rinpol	2128.00	NIST Webbook
rinpol	2127.00	NIST Webbook
rinpol	2127.00	NIST Webbook
rinpol	2114.00	NIST Webbook
rinpol	2130.00	NIST Webbook
ripol	2409.00	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
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ripol	2409.00	NIST Webbook
ripol	2429.00	NIST Webbook
ripol	2419.00	NIST Webbook
ripol	2442.00	NIST Webbook
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ripol	2418.00	NIST Webbook
ripol	2434.00	NIST Webbook
ripol	2405.00	NIST Webbook
ripol	2415.00	NIST Webbook
ripol	2409.00	NIST Webbook
ripol	2417.00	NIST Webbook
ripol	2433.00	NIST Webbook
ripol	2412.00	NIST Webbook
ripol	2422.00	NIST Webbook
ripol	2419.00	NIST Webbook
ripol	2424.00	NIST Webbook
ripol	2445.00	NIST Webbook
ripol	2445.00	NIST Webbook
ripol	2431.00	NIST Webbook

ripol	2426.00		NIST Webbook
ripol	2386.00		NIST Webbook
ripol	2405.00		NIST Webbook
ripol	2386.00		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	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	951.34	J/mol×K	879.90	Joback Method
cpg	936.27	J/mol×K	851.65	Joback Method
cpg	848.69	J/mol×K	710.41	Joback Method
cpg	867.91	J/mol×K	738.66	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
dvisc	0.0026724	Pa×s	343.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0024477	Pa×s	348.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0029293	Pa×s	338.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0032252	Pa×s	333.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0020762	Pa×s	358.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters

dvisc	0.0019217	Pa×s	363.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0035684	Pa×s	328.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0039645	Pa×s	323.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0044348	Pa×s	318.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0049862	Pa×s	313.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
dvisc	0.0022504	Pa×s	353.15	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters
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	61.70	kJ/mol	310.90	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 enthaplies and vapor pressures of a series of unstaurated fatty acid methyl esters by correlation gas chromatography
pvap	2.71e-03	kPa	373.95	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	1.72e-03	kPa	368.46	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	2.59e-03	kPa	373.44	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	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	2.85e-04	kPa	348.42	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	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	2.12e-04	kPa	345.44	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics	

pvap	1.91e-04	kPa	344.44	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	1.74e-04	kPa	343.47	Fatty acids methyl esters: Complementary measurements and comprehensive analysis of vaporization thermodynamics
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	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	1.96e-05	kPa	323.15	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	3.29e-03	kPa	376.44	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

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

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

the vaporization enthaplies and vapor pressures of a series of unstaurated fattyacid methyl esters by correlation gas chromatography:	https://www.doi.org/10.1016/j.tca.2007.02.008
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Vapour liquid equilibria of monocaprylin plus palmitic acid or methyl stearate at P = (1.20 and 2.50) kPa by using DSC technique:	https://www.doi.org/10.1016/j.jct.2015.07.033
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Density and Speed of Sound Measurements on Five Fatty Acid Methyl Esters at 65 kPa and Temperatures from (278.15 to 338.15) K:	https://www.doi.org/10.1021/je8003854
Isobaric Vapor−Liquid Equilibrium of the Mixture of Methyl Palmitate and Methyl Stearate at 0.1 kPa, 1 kPa, 5 kPa, and 10 kPa :	https://www.doi.org/10.1021/je3003699
Modified Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C112618&Units=SI
Heat Capacity Measurements of 13 Methyl Esters of n-Carboxylic Acids from Methyloctanoate to Methyl Octadecanoate between 5 K and 350 K:	https://www.doi.org/10.1021/je0499364
Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters:	https://www.doi.org/10.1021/je100042c
Phase behaviour of high molecular mass methyl esters in supercritical ethane:	https://www.doi.org/10.1016/j.fluid.2011.08.015
Fatty acids methyl esters:	https://www.doi.org/10.1016/j.jct.2019.01.007
Complementary measurements and comprehensive analysis of vapor–liquid critical point measurements of fifteen compounds	https://www.doi.org/10.1016/j.fluid.2014.07.038
Estimation Thermodynamics:	https://www.doi.org/10.1016/j.tca.2012.03.018
Express thermo-gravimetric method for the vaporization enthalpies appraisal for very low- volatile molecular and ionic compounds.:	https://www.doi.org/10.1021/acs.jced.5b00444
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:	

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity

gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsubt:	Enthalpy of sublimation at a given temperature
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
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tbp:	Boiling point at given pressure
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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https://www.chemeo.com/cid/43-446-9/Methyl-stearate.pdf
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Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.