Tetradecanoic acid

Other names:	1-Tridecanecarboxylic acid
	Acide Myristique
	Crodacid
	Emery 655
	Hydrofol acid 1495
	Hystrene 9014
	Hystrene 9514
	Myristic acid
	Myristic acid (tetradecanoic acid)
	N-MYRISTIC ACID
	NSC 5028
	Neo-Fat 14
	Philacid 1400
	Prifac 2942
	Prifrac 2942
	Tetradecanoic (Myristic) acid
	Tetradecanoic acid (=Myristic acid)
	Tetradecanoic acid (myristic acid)
	Univol U 316S
	n-Tetradecan-1-oic acid
	n-Tetradecanoic acid
	n-Tetradecoic acid
Inchi:	InChI=1S/C14H28O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14(15)16/h2-13H2,1H3,(H,15,16)
InchiKey:	TUNFSRHWOTWDNC-UHFFFAOYSA-N
Formula:	C14H28O2
SMILES:	CCCCCCCCCCCCCC(=O)O
Mol. weight [g/mol]:	228.37
CAS:	544-63-8

Physical Properties

Property code	Value	Unit	Source
chl	-8676.70 ± 1.40	kJ/mol	NIST Webbook
chs	-8675.90 ± 9.60	kJ/mol	NIST Webbook
gf	-198.74	kJ/mol	Joback Method
hf	-597.10	kJ/mol	Joback Method

hfus	44.75	kJ/mol	Solid-liquid phase equilibria of (n-octadecane with myristic, and palmitic acid) binary mixtures used as phase change materials (PCMs)
hfus	43.70	kJ/mol	Solid-Liquid Equilibrium of Binary Systems Containing Fatty Acids and Fatty Alcohols Using Differential Scanning Calorimetry
hsub	169.00 ± 9.00	kJ/mol	NIST Webbook
hvap	70.18	kJ/mol	Joback Method
log10ws	-5.33		Aqueous Solubility Prediction Method
logp	4.772		Crippen Method
mcvol	215.560	ml/mol	McGowan Method
pc	1644.20 ± 85.00	kPa	NIST Webbook
pt	2.13e-05 ± 1.07e-05	kPa	NIST Webbook
rinpol	1769.00		NIST Webbook
rinpol	1762.00		NIST Webbook
rinpol	1786.00		NIST Webbook
rinpol	1745.00		NIST Webbook
rinpol	1750.00		NIST Webbook
rinpol	1760.00		NIST Webbook
rinpol	1759.00		NIST Webbook
rinpol	1777.00		NIST Webbook
rinpol	1768.00		NIST Webbook
rinpol	1758.20		NIST Webbook
rinpol	1761.00		NIST Webbook
rinpol	1763.00		NIST Webbook
rinpol	1739.00		NIST Webbook
rinpol	1784.00		NIST Webbook
rinpol	1763.00		NIST Webbook
rinpol	1767.00		NIST Webbook
rinpol	1738.00		NIST Webbook
rinpol	1778.00		NIST Webbook
rinpol	1735.00		NIST Webbook
rinpol	1784.00		NIST Webbook
rinpol	1765.00		NIST Webbook
rinpol	1740.00		NIST Webbook
rinpol	1750.00		NIST Webbook
rinpol	1762.00		NIST Webbook
rinpol	1763.00		NIST Webbook
rinpol	1763.00		NIST Webbook
rinpol	1761.00		NIST Webbook
rinpol	1768.00		NIST Webbook

rinpol	1769.00	NIST Webbook
rinpol	293.98	NIST Webbook
rinpol	1748.00	NIST Webbook
rinpol	1780.00	NIST Webbook
rinpol	1770.00	NIST Webbook
rinpol	1767.10	NIST Webbook
rinpol	1762.00	NIST Webbook
rinpol	1772.00	NIST Webbook
rinpol	1765.00	NIST Webbook
rinpol	1787.00	NIST Webbook
rinpol	1787.00	NIST Webbook
rinpol	1769.70	NIST Webbook
rinpol	1770.00	NIST Webbook
rinpol	1748.00	NIST Webbook
rinpol	1748.00	NIST Webbook
rinpol	1768.00	NIST Webbook
rinpol	1776.00	NIST Webbook
rinpol	1780.00	NIST Webbook
rinpol	1798.00	NIST Webbook
rinpol	1770.00	NIST Webbook
rinpol	1771.00	NIST Webbook
rinpol	1771.00	NIST Webbook
rinpol	1770.00	NIST Webbook
rinpol	1762.00	NIST Webbook
rinpol	1772.00	NIST Webbook
rinpol	1767.00	NIST Webbook
rinpol	1759.00	NIST Webbook
rinpol	1752.00	NIST Webbook
rinpol	1771.00	NIST Webbook
rinpol	1777.00	NIST Webbook
rinpol	1767.00	NIST Webbook
rinpol	1771.00	NIST Webbook
rinpol	1752.00	NIST Webbook
rinpol	1743.00	NIST Webbook
rinpol	1762.00	NIST Webbook
rinpol	1743.00	NIST Webbook
rinpol	1743.00	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1772.71	NIST Webbook
rinpol	1774.64	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1751.00	NIST Webbook
rinpol	1731.00	NIST Webbook
rinpol	1737.00	NIST Webbook

rinpol	1740.00	NIST Webbook
rinpol	1737.27	NIST Webbook
rinpol	1763.00	NIST Webbook
rinpol	1779.00	NIST Webbook
rinpol	1758.20	NIST Webbook
rinpol	1767.00	NIST Webbook
rinpol	1770.00	NIST Webbook
rinpol	1752.10	NIST Webbook
rinpol	1756.00	NIST Webbook
rinpol	1739.00	NIST Webbook
rinpol	1762.00	NIST Webbook
rinpol	1747.00	NIST Webbook
rinpol	1747.00	NIST Webbook
rinpol	1761.00	NIST Webbook
rinpol	1751.00	NIST Webbook
rinpol	1762.00	NIST Webbook
rinpol	1763.00	NIST Webbook
rinpol	1766.00	NIST Webbook
rinpol	1744.00	NIST Webbook
rinpol	1774.00	NIST Webbook
rinpol	1767.00	NIST Webbook
rinpol	1761.00	NIST Webbook
rinpol	1765.00	NIST Webbook
rinpol	1763.00	NIST Webbook
rinpol	1763.00	NIST Webbook
rinpol	1746.00	NIST Webbook
rinpol	1761.00	NIST Webbook
rinpol	1762.00	NIST Webbook
rinpol	1747.00	NIST Webbook
rinpol	1763.00	NIST Webbook
rinpol	1780.00	NIST Webbook
rinpol	1765.00	NIST Webbook
rinpol	1771.00	NIST Webbook
rinpol	1762.00	NIST Webbook
rinpol	1748.00	NIST Webbook
rinpol	1742.00	NIST Webbook
rinpol	1742.00	NIST Webbook
rinpol	1741.00	NIST Webbook
rinpol	1771.00	NIST Webbook
rinpol	1765.00	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1782.00	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1769.00	NIST Webbook

rinpol	1771.00	NIST Webbook
rinpol	1750.00	NIST Webbook
rinpol	1765.00	NIST Webbook
rinpol	1764.00	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1765.00	NIST Webbook
rinpol	1768.00	NIST Webbook
rinpol	1757.00	NIST Webbook
rinpol	1782.00	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1760.00	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1770.00	NIST Webbook
rinpol	1771.00	NIST Webbook
rinpol	1768.00	NIST Webbook
rinpol	1773.00	NIST Webbook
rinpol	1795.00	NIST Webbook
rinpol	1777.00	NIST Webbook
rinpol	1780.00	NIST Webbook
rinpol	1770.00	NIST Webbook
rinpol	1765.00	NIST Webbook
rinpol	1776.00	NIST Webbook
rinpol	1783.00	NIST Webbook
rinpol	1741.00	NIST Webbook
rinpol	1768.00	NIST Webbook
rinpol	1755.00	NIST Webbook
rinpol	1751.00	NIST Webbook
rinpol	1783.00	NIST Webbook
rinpol	1786.00	NIST Webbook
rinpol	1747.00	NIST Webbook
rinpol	1770.00	NIST Webbook
rinpol	1764.00	NIST Webbook
rinpol	1748.00	NIST Webbook
rinpol	1748.00	NIST Webbook
rinpol	1760.00	NIST Webbook
rinpol	1760.00	NIST Webbook
rinpol	1773.00	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1776.00	NIST Webbook
rinpol	1756.00	NIST Webbook
rinpol	1763.00	NIST Webbook
rinpol	1765.00	NIST Webbook
rinpol	1763.00	NIST Webbook
rinpol	1772.00	NIST Webbook

rinpol	1760.00	NIST Webbook
rinpol	1758.00	NIST Webbook
rinpol	1751.00	NIST Webbook
rinpol	1761.00	NIST Webbook
rinpol	1767.00	NIST Webbook
rinpol	1765.00	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1756.00	NIST Webbook
rinpol	1768.00	NIST Webbook
rinpol	1772.00	NIST Webbook
rinpol	1769.00	NIST Webbook
rinpol	1738.00	NIST Webbook
rinpol	1768.00	NIST Webbook
rinpol	1777.00	NIST Webbook
rinpol	1780.00	NIST Webbook
rinpol	1755.00	NIST Webbook
rinpol	1743.00	NIST Webbook
rinpol	1757.00	NIST Webbook
rinpol	1759.00	NIST Webbook
rinpol	1717.00	NIST Webbook
rinpol	1750.00	NIST Webbook
rinpol	1731.00	NIST Webbook
rinpol	1758.00	NIST Webbook
rinpol	1768.00	NIST Webbook
rinpol	1758.00	NIST Webbook
rinpol	1778.00	NIST Webbook
rinpol	1770.00	NIST Webbook
rinpol	1768.00	NIST Webbook
rinpol	1760.00	NIST Webbook
rinpol	1800.00	NIST Webbook
rinpol	1761.00	NIST Webbook
rinpol	1777.00	NIST Webbook
rinpol	1768.00	NIST Webbook
rinpol	1750.00	NIST Webbook
rinpol	1780.00	NIST Webbook
rinpol	1774.00	NIST Webbook
rinpol	1748.00	NIST Webbook
rinpol	1767.00	NIST Webbook
rinpol	1745.00	NIST Webbook
rinpol	1758.00	NIST Webbook
rinpol	1762.00	NIST Webbook
rinpol	1749.00	NIST Webbook
rinpol	1750.00	NIST Webbook
rinpol	1786.00	NIST Webbook

rinpol	1754.00	NIST Webbook
rinpol	293.98	NIST Webbook
rinpol	303.00	NIST Webbook
rinpol	291.80	NIST Webbook
rinpol	288.93	NIST Webbook
rinpol	1775.00	NIST Webbook
ripol	2656.00	NIST Webbook
ripol	2724.00	NIST Webbook
ripol	2670.00	NIST Webbook
ripol	2691.00	NIST Webbook
ripol	2713.00	NIST Webbook
ripol	2682.00	NIST Webbook
ripol	2733.00	NIST Webbook
ripol	2693.00	NIST Webbook
ripol	2651.00	NIST Webbook
ripol	2679.00	NIST Webbook
ripol	2680.00	NIST Webbook
ripol	2694.00	NIST Webbook
ripol	2681.00	NIST Webbook
ripol	2660.00	NIST Webbook
ripol	2681.00	NIST Webbook
ripol	2715.00	NIST Webbook
ripol	2687.00	NIST Webbook
ripol	2679.00	NIST Webbook
ripol	2694.00	NIST Webbook
ripol	2694.00	NIST Webbook
ripol	2716.00	NIST Webbook
ripol	2712.00	NIST Webbook
ripol	2714.00	NIST Webbook
ripol	2734.00	NIST Webbook
ripol	2680.00	NIST Webbook
ripol	2712.00	NIST Webbook
ripol	2714.00	NIST Webbook
ripol	2656.00	NIST Webbook
ripol	2682.00	NIST Webbook
ripol	2679.00	NIST Webbook
ripol	2724.00	NIST Webbook
ripol	2733.00	NIST Webbook
ripol	2660.00	NIST Webbook
ripol	2698.00	NIST Webbook
ripol	2692.00	NIST Webbook
ripol	2692.00	NIST Webbook
ripol	2692.00	NIST Webbook
ripol	2675.00	NIST Webbook

ripol	2692.00	NIST Webbook
ripol	2674.00	NIST Webbook
ripol	2684.00	NIST Webbook
ripol	2651.00	NIST Webbook
ripol	2649.00	NIST Webbook
ripol	2703.00	NIST Webbook
ripol	2685.00	NIST Webbook
ripol	2693.00	NIST Webbook
ripol	2693.00	NIST Webbook
ripol	2708.00	NIST Webbook
ripol	2710.00	NIST Webbook
ripol	2715.00	NIST Webbook
ripol	2715.00	NIST Webbook
ripol	2733.00	NIST Webbook
ripol	2706.00	NIST Webbook
ripol	2704.00	NIST Webbook
ripol	2674.00	NIST Webbook
ripol	2648.00	NIST Webbook
ripol	2682.00	NIST Webbook
ripol	2717.00	NIST Webbook
ripol	2713.00	NIST Webbook
ripol	2713.00	NIST Webbook
ripol	2713.00	NIST Webbook
ripol	2713.00	NIST Webbook
ripol	2672.00	NIST Webbook
ripol	2695.00	NIST Webbook
ripol	2713.00	NIST Webbook
ripol	2684.00	NIST Webbook
ripol	2691.00	NIST Webbook
ripol	2670.00	NIST Webbook
ripol	2670.00	NIST Webbook
ripol	2702.00	NIST Webbook
ripol	2692.00	NIST Webbook
ripol	2695.00	NIST Webbook
ripol	2679.00	NIST Webbook
ripol	2713.00	NIST Webbook
ripol	2722.00	NIST Webbook
ripol	2672.00	NIST Webbook
ripol	2713.00	NIST Webbook
ripol	2724.00	NIST Webbook
ripol	2689.00	NIST Webbook
ripol	2713.00	NIST Webbook
ripol	2670.00	NIST Webbook
ripol	2670.00	NIST Webbook

ripol	2670.00		NIST Webbook
ripol	2670.00		NIST Webbook
ripol	2670.00		NIST Webbook
ripol	2670.00		NIST Webbook
ripol	2713.00		NIST Webbook
ripol	2670.00		NIST Webbook
ripol	2713.00		NIST Webbook
ripol	2670.00		NIST Webbook
ripol	2670.00		NIST Webbook
ripol	2660.00		NIST Webbook
ripol	2670.00		NIST Webbook
ripol	2713.00		NIST Webbook
ripol	2713.00		NIST Webbook
ripol	2719.00		NIST Webbook
ripol	2713.00		NIST Webbook
ripol	2670.00		NIST Webbook
ripol	2713.00		NIST Webbook
ripol	2713.00		NIST Webbook
ripol	2713.00		NIST Webbook
ripol	2713.00		NIST Webbook
ripol	2701.00		NIST Webbook
tb	665.77	K	Joback Method
tc	765.19 ± 3.00	K	NIST Webbook
tf	328.88	K	The solid liquid phase diagrams of binary mixtures of even saturated fatty acids differing by six carbon atoms
tf	327.82	K	Aqueous Solubility Prediction Method
tf	327.50	K	High pressure solid liquid equilibria of fatty acids
tf	327.03	K	Measurement and PC-SAFT modeling of solid-liquid equilibrium of deep eutectic solvents of quaternary ammonium chlorides and carboxylic acids
tf	329.05	K	Solid-liquid phase equilibrium diagrams of binary mixtures containing fatty acids, fatty alcohol compounds and tripalmitin using differential scanning calorimetry

tf	327.50	K	Study of the Effect of Pressure on Melting Behavior of Saturated Fatty Acids in Liquid or Supercritical Carbon Dioxide
tf	326.15	K	Preparation of paraffin and fatty acid phase changing nanoemulsions for heat transfer
tf	327.85	K	Prediction of the properties of eutectic fatty acid phase change materials
tf	327.60	K	Solid Liquid Equilibria in the Binary Systems of Saturated Fatty Acids or Triglycerides (C12 to C18) + Hexadecane
tf	327.48	K	Solid-Liquid Equilibrium of Binary Fatty Acid Mixtures
tt	327.32 ± 0.02	K	NIST Webbook
tt	327.05 ± 0.50	K	NIST Webbook
vc	0.845	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	676.89	J/mol×K	804.44	Joback Method
cpg	608.69	J/mol×K	665.77	Joback Method
cpg	623.60	J/mol×K	693.50	Joback Method
cpg	637.85	J/mol×K	721.24	Joback Method
cpg	651.47	J/mol×K	748.97	Joback Method
cpg	664.48	J/mol×K	776.71	Joback Method
cpg	688.73	J/mol×K	832.18	Joback Method
cps	523.00	J/mol×K	298.00	NIST Webbook
cps	432.01	J/mol×K	298.15	NIST Webbook
dvisc	0.0002574	Pa×s	512.03	Joback Method
dvisc	0.0005619	Pa×s	460.78	Joback Method
dvisc	0.0000798	Pa×s	614.52	Joback Method
dvisc	0.0000509	Pa×s	665.77	Joback Method
dvisc	0.0014913	Pa×s	409.54	Joback Method
dvisc	0.0052331	Pa×s	358.29	Joback Method
dvisc	0.0001359	Pa×s	563.28	Joback Method
hfust	45.10	kJ/mol	327.00	NIST Webbook
hfust	45.10	kJ/mol	327.00	NIST Webbook
hfust	45.00	kJ/mol	326.50	NIST Webbook

hfust	40.10	kJ/mol	326.60	NIST Webbook
hfust	45.75	kJ/mol	326.20	NIST Webbook
hfust	36.28	kJ/mol	317.00	NIST Webbook
hsubt	139.70 ± 3.80	kJ/mol	318.50	NIST Webbook
hsubt	140.00 ± 4.00	kJ/mol	311.85	NIST Webbook
hvapt	100.40	kJ/mol	421.00	NIST Webbook
hvapt	91.60	kJ/mol	511.00	NIST Webbook
hvapt	104.10 ± 2.00	kJ/mol	348.50	NIST Webbook
hvapt	88.90	kJ/mol	455.00	NIST Webbook
hvapt	111.20	kJ/mol	298.00	Vapor Pressures and Vaporization, Sublimation, and Fusion Enthalpies of Some Fatty Acids
pvap	1.33	kPa	464.60	Vapor pressure data for fatty acids obtained using an adaptation of the DSC technique
pvap	5.33	kPa	497.20	Vapor pressure data for fatty acids obtained using an adaptation of the DSC technique
pvap	6.67	kPa	503.10	Vapor pressure data for fatty acids obtained using an adaptation of the DSC technique
pvap	8.00	kPa	508.20	Vapor pressure data for fatty acids obtained using an adaptation of the DSC technique
pvap	9.33	kPa	512.60	Vapor pressure data for fatty acids obtained using an adaptation of the DSC technique
pvap	2.67	kPa	480.80	Vapor pressure data for fatty acids obtained using an adaptation of the DSC technique
pvap	4.00	kPa	489.50	Vapor pressure data for fatty acids obtained using an adaptation of the DSC technique

rhol	806.70	kg/m3	408.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rhol	846.90	kg/m3	352.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rhol	835.60	kg/m3	368.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rhol	791.70	kg/m3	427.90	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rhol	758.00	kg/m3	473.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rhol	769.30	kg/m3	458.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rhol	780.90	kg/m3	443.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rhol	821.40	kg/m3	388.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rhol	861.30	kg/m3	332.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K

sfust	114.00	J/mol×K	317.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	523.20	K	13.30	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.57451e+01
Coeff. B	-5.46750e+03
Coeff. C	-1.07769e+02
Temperature range (K), min.	461.48
Temperature range (K), max.	631.79

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	2.20853e+02
Coeff. B	-2.15189e+04
Coeff. C	-2.86975e+01
Coeff. D	9.02023e-06
Temperature range (K), min.	327.55
Temperature range (K), max.	756.00

Sources

KDB Vapor Pressure Data: https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=948

Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

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

Measurement and PC-SAFT modeling of solid-liquid equilibrium of deep eutectic solvents of quaternary ammonium chlorides and carboxylic acids: https://www.doi.org/10.1016/j.fluid.2017.04.007

Prediction of the properties of eutectic fatty acid phase change materials:	https://www.doi.org/10.1016/j.tca.2017.12.024
Solid-liquid phase equilibria of (n-octadecane with myristic, and palmitic acid) binary mixtures used as phase change materials (PCMs):	https://www.doi.org/10.1016/j.jct.2016.05.008
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Activity coefficient at infinite dilution measurements for organic solutes (Solid Lauric Acid) in fatty acids:	https://www.doi.org/10.1016/j.jct.2012.06.009
Solubilities of Dodecanoic and Tetradecanoic Acids in Supercritical CO2 with and without Entrainers:	https://www.doi.org/10.1021/je800544a
Compounds: Saturated fatty acids:	https://www.doi.org/10.1016/j.fluid.2007.02.007
High pressure solid-liquid equilibria of fatty acids:	https://www.doi.org/10.1021/je201181k
Solubilities of Fatty Acids and Triglycerides in 1-Bromopropane:	https://www.doi.org/10.1016/j.tca.2014.12.020
Preparation of paraffin and fatty acid phase changing nanoemulsions for heat transfer:	https://www.doi.org/10.1016/j.tca.2012.07.034
Vapor pressure data for fatty acids obtained using an adaptation of the DSC technique:	https://www.doi.org/10.1016/j.fluid.2019.05.020
Solid-liquid phase equilibrium diagrams of binary mixtures containing fatty acids, fatty alcohol compounds and n-alkanes using differential	https://www.doi.org/10.1016/j.jct.2017.06.012
Physical properties of systems of interest to the edible oil industry: Solid-Liquid Equilibria in the Binary Systems of Saturated Fatty Acids or Alcohols (C12 to C18) + Hexadecane:	https://www.doi.org/10.1021/acs.jced.6b00355
Solid-liquid equilibria of model systems formed by (triacylglycerol + fatty acid + solvent):	https://en.wikipedia.org/wiki/Joback_method
Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (293.3 to 473.4) K:	https://www.doi.org/10.1021/acs.jced.5b00971
NIST Webbook	http://webbook.nist.gov/cgi/cbook.cgi?ID=C544638&Units=SI
Study of the Effect of Pressure on Melting Behavior of Saturated Fatty Acids in Liquid or Supercritical Carbon Dioxide:	https://www.doi.org/10.1021/je400260c
Solid-Liquid Equilibria of Binary Systems Containing Fatty Acids and Fatty Alcohols Using Differential Scanning Calorimetry:	https://www.doi.org/10.1021/acs.jced.8b01006
Solid-Liquid Equilibrium of Binary Fatty Acid Mixtures:	https://www.doi.org/10.1021/je060146z
Experimental determination of the (vapor + liquid) equilibrium data of binary mixtures of fatty acids by differential scanning calorimetry:	https://www.doi.org/10.1016/j.jct.2009.07.008
Vapor Pressures and Vaporization, Sublimation, and Fusion Enthalpies of Some Fatty Acids:	https://www.doi.org/10.1021/je300902c
Isopiestic liquid-phase diagrams of binary mixtures of even saturated fatty acids differing by six carbon atoms:	https://www.doi.org/10.1016/j.tca.2009.06.018
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

chl:	Standard liquid enthalpy of combustion
chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
cps:	Solid phase 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
hsub:	Enthalpy of sublimation at standard conditions
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
pt:	Triple Point Pressure
pvap:	Vapor pressure
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume