

# Octanoic acid

<b>Other names:</b>	1-Heptanecarboxylic acid 1-Octanoic acid C-8 Acid Caprylic acid Emery 657 Enantic acid Heptane-1-carboxylic acid Hexacid 898 Kyselina kaprylova Lunac 8-95 NSC 5024 Neo-Fat 8 Octic acid Octoic acid Octylic acid Prifac 2901 Prifrac 2901 n-Caprylic acid n-Octanoic acid n-Octoic acid n-Octylic acid
<b>Inchi:</b>	InChI=1S/C8H16O2/c1-2-3-4-5-6-7-8(9)10/h2-7H2,1H3,(H,9,10)
<b>InchiKey:</b>	WWZKQHOCKIZLMA-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O2
<b>SMILES:</b>	CCCCCCCC(=O)O
<b>Mol. weight [g/mol]:</b>	144.21
<b>CAS:</b>	124-07-2

## Physical Properties

Property code	Value	Unit	Source
chl	-4797.92 ± 0.54	kJ/mol	NIST Webbook
chl	-4799.90 ± 0.80	kJ/mol	NIST Webbook
gf	-249.26	kJ/mol	Joback Method
hf	-556.60 ± 1.10	kJ/mol	NIST Webbook
hf	-554.00 ± 1.10	kJ/mol	NIST Webbook
hf	-556.60	kJ/mol	NIST Webbook

hf	-554.50 ± 1.30	kJ/mol	NIST Webbook
hfl	-634.80 ± 0.80	kJ/mol	NIST Webbook
hfl	-636.89 ± 0.54	kJ/mol	NIST Webbook
hfus	22.16	kJ/mol	Joback Method
hsub	113.00 ± 6.00	kJ/mol	NIST Webbook
hvap	81.00 ± 0.60	kJ/mol	NIST Webbook
hvap	81.20	kJ/mol	NIST Webbook
hvap	82.90 ± 1.00	kJ/mol	NIST Webbook
hvap	82.90 ± 1.00	kJ/mol	NIST Webbook
hvap	80.30	kJ/mol	NIST Webbook
log10ws	-2.30		Aqueous Solubility Prediction Method
logp	2.432		Crippen Method
mcvol	131.020	ml/mol	McGowan Method
pc	2640.00	kPa	KDB
pc	2869.00 ± 60.00	kPa	NIST Webbook
pc	2700.00 ± 250.00	kPa	NIST Webbook
pc	2565.44 ± 90.00	kPa	NIST Webbook
rinpol	1172.00		NIST Webbook
rinpol	1189.00		NIST Webbook
rinpol	1164.00		NIST Webbook
rinpol	1188.00		NIST Webbook
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rinpol	1160.00	NIST Webbook
rinpol	1192.00	NIST Webbook
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tb	512.00	K	KDB
tc	697.20 ± 3.00	K	NIST Webbook
tc	694.00 ± 1.50	K	NIST Webbook
tc	693.00 ± 1.00	K	NIST Webbook
tc	695.00	K	KDB
tf	289.63	K	The solid liquid phase diagrams of binary mixtures of even saturated fatty acids differing by six carbon atoms
tf	289.86	K	High pressure solid liquid equilibria of fatty acids
tf	289.40	K	KDB
tf	289.61	K	Aqueous Solubility Prediction Method
tt	289.66 ± 0.02	K	NIST Webbook
vc	0.508	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.45	J/mol×K	528.49	Joback Method
cpg	368.11	J/mol×K	697.39	Joback Method
cpg	359.37	J/mol×K	669.24	Joback Method
cpg	350.23	J/mol×K	641.09	Joback Method
cpg	340.68	J/mol×K	612.94	Joback Method

cpg	330.71	J/molxK	584.79	Joback Method
cpg	320.30	J/molxK	556.64	Joback Method
cpl	297.92	J/molxK	298.15	NIST Webbook
cpl	304.60	J/molxK	305.00	NIST Webbook
dvisc	0.0161114	Paxs	290.67	Joback Method
dvisc	0.0046128	Paxs	330.31	Joback Method
dvisc	0.0017266	Paxs	369.94	Joback Method
dvisc	0.0007817	Paxs	409.58	Joback Method
dvisc	0.0004070	Paxs	449.22	Joback Method
dvisc	0.0002356	Paxs	488.85	Joback Method
dvisc	0.0001480	Paxs	528.49	Joback Method
hfust	21.38	kJ/mol	289.70	NIST Webbook
hfust	21.38	kJ/mol	289.50	NIST Webbook
hvapt	80.00	kJ/mol	290.00	NIST Webbook
hvapt	74.40	kJ/mol	436.00	NIST Webbook
hvapt	85.30	kJ/mol	313.50	NIST Webbook
hvapt	66.60	kJ/mol	465.50	NIST Webbook
hvapt	79.80 ± 0.60	kJ/mol	320.00	NIST Webbook
hvapt	70.00	kJ/mol	407.00	NIST Webbook
rho1	910.00	kg/m3	298.15	Physico-Chemical Properties of Non-Newtonian Shear Thickening Diisopropyl-ethylammonium-Based Protic Ionic Liquids and Their Mixtures with Water and Acetonitrile
rho1	906.02	kg/m3	298.15	Excess molar enthalpies of binary systems containing 2-octanone, hexanoic acid, or octanoic acid at T = 298.15 K
rho1	906.00	kg/m3	298.15	Liquid-liquid equilibria and density data for pseudoternary systems of refined soybean oil + (hexanal, or heptanal, or butyric acid, or valeric acid, or caproic acid, or caprylic acid) + dimethyl sulfoxide at 298.15 K

rho	910.30	kg/m <sup>3</sup>	290.30	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho	898.20	kg/m <sup>3</sup>	308.00	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho	885.90	kg/m <sup>3</sup>	323.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho	873.80	kg/m <sup>3</sup>	338.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho	861.80	kg/m <sup>3</sup>	353.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho	849.70	kg/m <sup>3</sup>	367.80	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho	837.20	kg/m <sup>3</sup>	383.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho	824.60	kg/m <sup>3</sup>	398.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho	812.30	kg/m <sup>3</sup>	412.90	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K

rho1	799.20	kg/m3	427.70	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
sfust	73.90	J/molxK	289.50	NIST Webbook

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbp	417.19	K	3.47	Improving a variation of the DSC technique for measuring the boiling points of pure compounds at low pressures

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.55313e+01
Coeff. B	-4.35069e+03
Coeff. C	-1.11329e+02
Temperature range (K), min.	396.74
Temperature range (K), max.	537.04

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	2.33561e+02
Coeff. B	-1.92069e+04
Coeff. C	-3.12560e+01
Coeff. D	1.35849e-05
Temperature range (K), min.	289.65
Temperature range (K), max.	692.00

# Sources

Solubility of Small-Chain Carboxylic Acids in Supercritical Carbon Dioxide: Phase Equilibria of Long-Chain Carboxylic Acids in Supercritical Propane  
<https://www.doi.org/10.1021/je100504h>

Propane diffusion coefficients of sodium octanoate, and octanoic acid in aqueous solutions with and without Non-Newtonian Shear Thickening Dispersions of Tetramethylammonium-Based Protic Ionic Liquids and Their Mixtures With Water and Acetonitrile: McGowan Method  
<https://www.doi.org/10.1021/je101077v>  
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High pressure solid liquid equilibria of fatty acids: Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K:  
<https://www.doi.org/10.1016/j.fluid.2007.02.007>  
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Excess molar enthalpies of binary systems containing 2-octanone, hexanoic acid, or caproic acid at T = 298.15 K: Improving a variation of the DSC technique for measuring the boiling points of the compounds at low pressures:  
<https://www.doi.org/10.1016/j.jct.2011.07.018>  
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The Yaws Handbook of Vapor Pressure: Physical properties of systems of interest to the edible oil industry: Joback Method and densities of model systems formed by (triacylglycerol + fatty acid + solvent) binary mixtures of even saturated fatty acids differing by six carbon atoms:  
<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>  
<https://www.doi.org/10.1016/j.jct.2017.06.012>  
[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)  
<https://www.doi.org/10.1016/j.tca.2009.06.018>  
<https://www.doi.org/10.1016/j.jct.2018.10.030>

Solubility of Paraxanthine in Supercritical Carbon Dioxide or caproic acid, or caprylic acid, or caprinic sulfoxide at 298.15 K:  
<https://www.doi.org/10.1021/acs.jced.6b00649>  
<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

# Legend

- chl: Standard liquid enthalpy of combustion
- cpg: Ideal gas heat capacity
- cpl: Liquid phase heat capacity
- dvisc: Dynamic viscosity
- gf: Standard Gibbs free energy of formation
- hf: Enthalpy of formation at standard conditions
- hfl: Liquid phase 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
- hvap: Enthalpy of vaporization at standard conditions
- hvapt: 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>rho:</b>	Liquid Density
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>sfust:</b>	Entropy of fusion at a given temperature
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbp:</b>	Boiling point at given pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>tt:</b>	Triple Point Temperature
<b>vc:</b>	Critical Volume

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