

# n-Decanoic acid

<b>Other names:</b>	1-Decanoic acid 1-Nonanecarboxylic acid Capric acid Caprinic acid Caprynic acid Decanoic acid Decanoic acid (capric acid) Decoic acid Decylic acid Emery 659 Hexacid 1095 NSC 5025 Nonane-1-carboxylic acid Prifrac 296 n-Capric acid n-Decoic acid n-Decylic acid neo-Fat 10
<b>Inchi:</b>	InChI=1S/C10H20O2/c1-2-3-4-5-6-7-8-9-10(11)12/h2-9H2,1H3,(H,11,12)
<b>InchiKey:</b>	GHVNFZFCNZKVNT-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O2
<b>SMILES:</b>	CCCCCCCCC(=O)O
<b>Mol. weight [g/mol]:</b>	172.26
<b>CAS:</b>	334-48-5

## Physical Properties

Property code	Value	Unit	Source
chl	-6079.30 ± 0.90	kJ/mol	NIST Webbook
gf	-232.42	kJ/mol	Joback Method
hf	-624.20 ± 5.10	kJ/mol	NIST Webbook
hfus	28.00	kJ/mol	Solid-Liquid Equilibrium of Binary Systems Containing Fatty Acids and Fatty Alcohols Using Differential Scanning Calorimetry
hsub	119.00 ± 2.00	kJ/mol	NIST Webbook
hsub	130.00 ± 5.00	kJ/mol	NIST Webbook

hsub	118.80 ± 2.20	kJ/mol	NIST Webbook
hvap	61.28	kJ/mol	Joback Method
log10ws	-3.44		Aqueous Solubility Prediction Method
logp	3.212		Crippen Method
mcvol	159.200	ml/mol	McGowan Method
pc	2230.00	kPa	KDB
pc	2161.74 ± 90.00	kPa	NIST Webbook
pc	2100.00 ± 400.00	kPa	NIST Webbook
pt	9.73e-05 ± 2.67e-05	kPa	NIST Webbook
rinpol	1348.00		NIST Webbook
rinpol	234.82		NIST Webbook
rinpol	1372.00		NIST Webbook
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rinpol	1384.00		NIST Webbook
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rinpol	1335.00		NIST Webbook
rinpol	1365.00		NIST Webbook
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ripol	2261.00		NIST Webbook
ripol	2273.00		NIST Webbook
ripol	2278.00		NIST Webbook
ripol	2300.00		NIST Webbook
tb	535.65 ± 5.00	K	NIST Webbook
tb	541.65 ± 3.00	K	NIST Webbook
tb	541.90	K	KDB
tb	543.20	K	NIST Webbook
tb	541.00 ± 2.00	K	NIST Webbook
tb	542.15 ± 3.00	K	NIST Webbook
tb	541.95 ± 1.00	K	NIST Webbook

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tf	305.00 ± 3.00	K	NIST Webbook
tf	302.90 ± 1.50	K	NIST Webbook
tf	304.00 ± 1.60	K	NIST Webbook
tf	304.70 ± 0.05	K	NIST Webbook
tf	304.42	K	Solid-Liquid Equilibrium of Binary Fatty Acid Mixtures
tf	305.15	K	Prediction of the properties of eutectic fatty acid phase change materials
tf	305.46	K	The solid liquid phase diagrams of binary mixtures of even saturated fatty acids differing by six carbon atoms
tf	305.22	K	Solid-liquid phase equilibrium diagrams of binary mixtures containing fatty acids, fatty alcohol compounds and tripalmitin using differential scanning calorimetry
tf	304.75	K	Measurement and PC-SAFT modeling of solid-liquid equilibrium of deep eutectic solvents of quaternary ammonium chlorides and carboxylic acids
tf	305.14	K	KDB
tf	304.53	K	Aqueous Solubility Prediction Method
tf	304.40 ± 0.20	K	NIST Webbook
tf	304.15 ± 2.00	K	NIST Webbook
tf	300.10 ± 1.00	K	NIST Webbook
tf	304.60 ± 2.00	K	NIST Webbook
tf	303.90 ± 1.00	K	NIST Webbook
tt	304.55 ± 0.02	K	NIST Webbook
tt	303.95 ± 0.50	K	NIST Webbook
vc	0.621	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	469.86	J/molxK	741.22	Joback Method
cpg	415.22	J/molxK	602.08	Joback Method
cpg	402.78	J/molxK	574.25	Joback Method
cpg	449.45	J/molxK	685.56	Joback Method
cpg	459.89	J/molxK	713.39	Joback Method
cpg	438.54	J/molxK	657.73	Joback Method
cpg	427.13	J/molxK	629.91	Joback Method
cps	475.59	J/molxK	298.15	NIST Webbook
cps	361.10	J/molxK	285.00	NIST Webbook
dvisc	0.0001652	Paxs	530.74	Joback Method
dvisc	0.0002839	Paxs	487.24	Joback Method
dvisc	0.0005426	Paxs	443.73	Joback Method
dvisc	0.0011935	Paxs	400.22	Joback Method
dvisc	0.0001044	Paxs	574.25	Joback Method
dvisc	0.0111394	Paxs	313.21	Joback Method
dvisc	0.0031819	Paxs	356.72	Joback Method
hfust	27.99	kJ/mol	304.50	NIST Webbook
hfust	27.82	kJ/mol	304.50	NIST Webbook
hfust	28.30	kJ/mol	303.80	NIST Webbook
hfust	27.99	kJ/mol	304.40	NIST Webbook
hfust	29.22	kJ/mol	300.10	NIST Webbook
hsubt	117.00 ± 2.00	kJ/mol	289.80	NIST Webbook
hsubt	117.10 ± 1.70	kJ/mol	295.50	NIST Webbook
hvapt	76.40	kJ/mol	470.50	NIST Webbook
hvapt	88.60	kJ/mol	314.00	NIST Webbook
hvapt	71.40	kJ/mol	418.00	NIST Webbook
rho1	784.90	kg/m3	442.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho1	772.90	kg/m3	457.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K

rho1	761.90	kg/m3	472.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho1	796.40	kg/m3	428.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho1	797.20	kg/m3	427.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho1	812.20	kg/m3	408.20	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho1	827.30	kg/m3	388.30	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho1	843.10	kg/m3	368.30	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho1	855.30	kg/m3	352.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho1	878.00	kg/m3	322.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K
rho1	871.00	kg/m3	332.10	Density, Viscosity, and Thermal Conductivity of Eight Carboxylic Acids from (290.3 to 473.4) K

sfust	97.40	J/molxK	300.10	NIST Webbook
sfust	92.00	J/molxK	304.40	NIST Webbook

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	422.20	K	1.50	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.62028e+01
Coeff. B	-4.40263e+03
Coeff. C	-1.49953e+02
Temperature range (K), min.	426.58
Temperature range (K), max.	554.19

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	4.88007e+02
Coeff. B	-3.39121e+04
Coeff. C	-6.83540e+01
Coeff. D	3.21849e-05
Temperature range (K), min.	304.75
Temperature range (K), max.	713.00

## Sources

Physical properties of systems of interest to the edible oil industry: Joback Method: densities of model systems formed by (triacylglycerol + fatty acid + solvent). 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.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.fluid.2017.04.007>

Thermodynamic properties of hydrophobic deep eutectic solvents	<a href="https://www.doi.org/10.1016/j.fluid.2019.02.010">https://www.doi.org/10.1016/j.fluid.2019.02.010</a>
The solid-liquid phase diagrams of binary mixtures of even and odd fatty acids: A handbook of vapor pressure	<a href="https://www.doi.org/10.1016/j.tca.2009.06.018">https://www.doi.org/10.1016/j.tca.2009.06.018</a>
Pressure: Solid-Liquid Equilibrium of Binary Fatty Acid Mixtures:	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
Viscosities of Fatty Mixtures: Experimental Data and Prediction: KDB:	<a href="https://www.doi.org/10.1021/je060146z">https://www.doi.org/10.1021/je060146z</a>
Solid-Liquid Equilibrium of Binary Systems Containing Fatty Acids and Fatty Alcohols Using Differential Scanning Calorimetry:	<a href="https://www.doi.org/10.1021/je700293s">https://www.doi.org/10.1021/je700293s</a>
Carbon Dioxide Solubilities in Decanoic Acid-Based Hydrophobic Deep Eutectic Solvents:	<a href="https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=944">https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=944</a>
Prediction of the properties of eutectic fatty acid phase change materials: Phase Equilibria of Long-Chain Carboxylic Acids in Supercritical McGowan Method:	<a href="https://www.doi.org/10.1021/acs.jced.8b01006">https://www.doi.org/10.1021/acs.jced.8b01006</a>
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Solid-Liquid Phase Equilibrium diagrams of binary mixtures containing fatty acids, long alcohols and diols	<a href="https://www.doi.org/10.1016/j.tca.2017.12.024">https://www.doi.org/10.1016/j.tca.2017.12.024</a>
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## Legend

chl:	Standard liquid 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

<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>tbrp:</b>	Boiling point at reduced 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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