

Nonane

Other names:	Shellsol 140 UN 1920 n-C9H20 n-Nonane
Inchi:	InChI=1S/C9H20/c1-3-5-7-9-8-6-4-2/h3-9H2,1-2H3
InchiKey:	BKIMMITUMNQMOS-UHFFFAOYSA-N
Formula:	C9H20
SMILES:	CCCCCCCCC
Mol. weight [g/mol]:	128.26
CAS:	111-84-2

Physical Properties

Property code	Value	Unit	Source
af	0.4450		KDB
aigt	478.15	K	KDB
ap	346.850	K	KDB
chl	-6124.90 ± 1.10	kJ/mol	NIST Webbook
chl	-6125.21 ± 0.54	kJ/mol	NIST Webbook
chl	-6119.80	kJ/mol	NIST Webbook
fil	0.87	% in Air	KDB
flu	2.90	% in Air	KDB
fpo	304.26	K	KDB
gf	24.83	kJ/mol	KDB
hcg	6125.17	kJ/mol	KDB
hcn	5685.052	kJ/mol	KDB
hf	-228.30	kJ/mol	NIST Webbook
hf	-229.20	kJ/mol	KDB
hfl	-274.70 ± 1.00	kJ/mol	NIST Webbook
hfus	19.07	kJ/mol	Joback Method
hvap	35.63	kJ/mol	Joback Method
ie	9.71 ± 0.10	eV	NIST Webbook
ie	9.87	eV	NIST Webbook
ie	9.71 ± 0.10	eV	NIST Webbook
ie	9.63 ± 0.15	eV	NIST Webbook
ie	10.19	eV	NIST Webbook
log10ws	-5.88		Aqueous Solubility Prediction Method

log10ws	-5.88		Estimated Solubility Method
logp	3.757		Crippen Method
mcvol	137.670	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
pc	2280.00 ± 20.00	kPa	NIST Webbook
pc	2270.00 ± 30.00	kPa	NIST Webbook
pc	2291.10 ± 0.22	kPa	NIST Webbook
pc	2305.60 ± 0.23	kPa	NIST Webbook
pc	2288.00 ± 10.00	kPa	NIST Webbook
pc	2357.30 ± 0.23	kPa	NIST Webbook
pc	2294.00 ± 6.89	kPa	NIST Webbook
pc	2299.00 ± 5.00	kPa	NIST Webbook
pc	2290.00	kPa	KDB
pc	2290.00 ± 50.00	kPa	NIST Webbook
pc	2290.40 ± 0.22	kPa	NIST Webbook
rhoc	230.86 ± 6.41	kg/m3	NIST Webbook
rhoc	235.99 ± 10.00	kg/m3	NIST Webbook
rhoc	230.86 ± 6.41	kg/m3	NIST Webbook
rinpol	138.27		NIST Webbook
rinpol	144.03		NIST Webbook
rinpol	138.27		NIST Webbook
sg	506.50 ± 1.00	J/molxK	NIST Webbook
sl	392.90	J/molxK	NIST Webbook
sl	393.67	J/molxK	NIST Webbook
tb	423.75 ± 0.50	K	NIST Webbook
tb	423.90 ± 0.30	K	NIST Webbook
tb	423.94 ± 0.03	K	NIST Webbook
tb	423.05 ± 1.00	K	NIST Webbook
tb	421.65 ± 1.50	K	NIST Webbook
tb	423.95 ± 0.30	K	NIST Webbook
tb	423.94 ± 0.01	K	NIST Webbook
tb	424.00 ± 0.15	K	NIST Webbook
tb	424.00 ± 2.00	K	NIST Webbook
tb	423.65 ± 2.00	K	NIST Webbook
tb	424.00 ± 0.20	K	NIST Webbook
tb	423.95 ± 0.30	K	NIST Webbook
tb	423.85 ± 0.60	K	NIST Webbook
tb	423.85 ± 0.30	K	NIST Webbook
tb	423.96 ± 0.20	K	NIST Webbook
tb	423.40 ± 0.70	K	NIST Webbook
tb	423.85 ± 0.30	K	NIST Webbook
tb	423.70 ± 0.50	K	NIST Webbook
tb	423.86 ± 0.50	K	NIST Webbook
tb	423.86 ± 0.15	K	NIST Webbook

tb	423.88 ± 0.10	K	NIST Webbook
tb	423.86 ± 0.15	K	NIST Webbook
tb	423.87 ± 0.10	K	NIST Webbook
tb	421.15 ± 3.00	K	NIST Webbook
tb	423.90 ± 2.00	K	NIST Webbook
tb	423.87 ± 0.10	K	NIST Webbook
tb	422.65 ± 1.00	K	NIST Webbook
tb	423.92 ± 0.15	K	NIST Webbook
tb	422.95 ± 0.50	K	NIST Webbook
tb	423.80 ± 0.20	K	NIST Webbook
tb	423.65 ± 0.25	K	NIST Webbook
tb	423.95 ± 0.15	K	NIST Webbook
tb	422.65 ± 0.70	K	NIST Webbook
tb	423.45 ± 0.25	K	NIST Webbook
tb	423.85 ± 0.20	K	NIST Webbook
tb	423.80 ± 0.20	K	NIST Webbook
tb	423.80 ± 0.60	K	NIST Webbook
tb	423.45 ± 0.17	K	NIST Webbook
tb	423.45 ± 0.40	K	NIST Webbook
tb	423.91 ± 0.15	K	NIST Webbook
tb	423.75 ± 0.30	K	NIST Webbook
tb	423.20 ± 2.00	K	NIST Webbook
tb	423.54 ± 0.50	K	NIST Webbook
tb	424.15 ± 0.20	K	NIST Webbook
tb	423.88 ± 0.50	K	NIST Webbook
tb	423.82 ± 0.25	K	NIST Webbook
tb	424.00	K	NIST Webbook
tb	424.00	K	NIST Webbook
tb	423.94	K	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
tb	423.97	K	Isobaric Vapor-Liquid Equilibria of the Ternary System Methylbutyl Ketone + Nonane + Cyclohexanol
tb	423.66	K	Densities and Excess Molar Properties of Dimethyl Carbonate with Alkanes (C6 to C10) and VLE of Dimethyl Carbonate with Alkanes (C9 to C10) at 101.3 kPa

tb	423.94	K	Solutions of alkyl methanoates and alkanes: Simultaneous modeling of phase equilibria and mixing properties. Estimation of behavior by UNIFAC with recalculation of parameters
tb	423.80	K	Isobaric vapor-liquid equilibrium for binary systems of toluene + o-xylene, benzene + o-xylene, nonane + benzene and nonane + heptane at 101.3 kPa
tb	423.80	K	Isobaric vapor-liquid equilibrium for the binary mixtures of nonane with cyclohexane, toluene, m-xylene, or p-xylene at 101.3 kPa
tb	423.97	K	KDB
tb	423.96 ± 0.30	K	NIST Webbook
tb	423.95 ± 0.10	K	NIST Webbook
tb	423.90 ± 0.50	K	NIST Webbook
tc	594.52	K	Determination of the Critical Properties of C6 C10 n-Alkanes and Their Binary Systems Using a Flow Apparatus
tc	594.60	K	KDB
tc	594.52	K	Experimental determination of critical data of multi-component mixtures containing potential gasoline additives 2-butanol by a flow-type apparatus
tc	594.50	K	Measurement of Critical Properties for Binary and Ternary Mixtures Containing n-Butanol and n-Alkane
tf	219.77	K	Aqueous Solubility Prediction Method
tf	219.60	K	KDB
tt	219.65	K	KDB
vc	0.555	m ³ /kmol	NIST Webbook
vc	0.555	m ³ /kmol	KDB
zc	0.2570790		KDB
zra	0.25		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.67	J/molxK	405.32	Joback Method
cpg	313.49	J/molxK	486.85	Joback Method
cpg	349.98	J/molxK	568.37	Joback Method
cpg	338.28	J/molxK	541.20	Joback Method
cpg	286.78	J/molxK	432.50	Joback Method
cpg	326.12	J/molxK	514.02	Joback Method
cpg	300.38	J/molxK	459.67	Joback Method
cpl	288.80	J/molxK	308.15	Thermodynamic behaviour of the binary systems dimethyl carbonate + n-octane or n-nonane
cpl	284.34	J/molxK	298.15	NIST Webbook
cpl	292.18	J/molxK	318.15	NIST Webbook
cpl	283.80	J/molxK	298.15	NIST Webbook
cpl	284.23	J/molxK	298.15	Thermodynamic behaviour of the binary systems dimethyl carbonate + n-octane or n-nonane
cpl	280.13	J/molxK	288.15	Thermodynamic behaviour of the binary systems dimethyl carbonate + n-octane or n-nonane
cpl	293.20	J/molxK	323.00	NIST Webbook
cpl	284.00	J/molxK	298.15	NIST Webbook
cpl	322.20	J/molxK	350.00	NIST Webbook
cpl	284.39	J/molxK	298.15	NIST Webbook
cpl	284.01	J/molxK	298.15	NIST Webbook
cpl	280.70	J/molxK	297.90	NIST Webbook
cpl	281.20	J/molxK	299.10	NIST Webbook
cpl	284.76	J/molxK	298.15	NIST Webbook
dvisc	0.0003460	Paxs	358.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K

dvisc	0.0006640	Paxs	298.15	Densities and Viscosities of Ternary Mixtures of Heptane, Octane, Nonane, and Hexyl Benzene from 293.15 K to 313.15 K
dvisc	0.0006217	Paxs	303.15	Densities and Viscosities of Ternary Mixtures of Heptane, Octane, Nonane, and Hexyl Benzene from 293.15 K to 313.15 K
dvisc	0.0005849	Paxs	308.15	Densities and Viscosities of Ternary Mixtures of Heptane, Octane, Nonane, and Hexyl Benzene from 293.15 K to 313.15 K
dvisc	0.0005500	Paxs	313.15	Densities and Viscosities of Ternary Mixtures of Heptane, Octane, Nonane, and Hexyl Benzene from 293.15 K to 313.15 K
dvisc	0.0009720	Paxs	273.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0008280	Paxs	283.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0007091	Paxs	293.15	Densities and Viscosities of Ternary Mixtures of Heptane, Octane, Nonane, and Hexyl Benzene from 293.15 K to 313.15 K

dvisc	0.0007680	Paxs	288.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0007160	Paxs	293.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0006690	Paxs	298.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0006280	Paxs	303.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0005900	Paxs	308.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0005550	Paxs	313.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0008960	Paxs	278.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0005220	Paxs	318.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0004930	Paxs	323.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K

dvisc	0.0004660	Paxs	328.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0004420	Paxs	333.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0004200	Paxs	338.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0003990	Paxs	343.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0003800	Paxs	348.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
dvisc	0.0003620	Paxs	353.15	Densities and Viscosities of MTBE + Nonane or Decane at p = 0.1 MPa from (273.15 to 363.15) K
hfust	15.48	kJ/mol	219.70	NIST Webbook
hfust	15.00	kJ/mol	219.50	NIST Webbook
hsubt	74.60	kJ/mol	219.00	NIST Webbook
hvapt	36.91	kJ/mol	423.80	KDB
hvapt	44.30	kJ/mol	328.00	NIST Webbook
hvapt	42.10	kJ/mol	358.00	NIST Webbook
hvapt	43.20	kJ/mol	343.00	NIST Webbook
hvapt	43.90	kJ/mol	367.50	NIST Webbook
hvapt	42.70	kJ/mol	385.00	NIST Webbook
hvapt	48.30	kJ/mol	263.50	NIST Webbook
hvapt	46.00	kJ/mol	314.00	NIST Webbook
hvapt	46.70	kJ/mol	299.00	NIST Webbook
hvapt	36.91	kJ/mol	424.00	NIST Webbook

pvap	89.41	kPa	419.28	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	113.88	kPa	428.40	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	116.44	kPa	429.26	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	119.35	kPa	430.22	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	122.04	kPa	431.09	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	124.99	kPa	432.04	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	127.82	kPa	432.94	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	130.52	kPa	433.74	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	133.60	kPa	434.68	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	136.62	kPa	435.58	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	139.12	kPa	436.31	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	141.90	kPa	437.11	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	144.81	kPa	437.95	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	147.42	kPa	438.67	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	150.23	kPa	439.45	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	152.67	kPa	440.11	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	86.85	kPa	418.24	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	157.53	kPa	441.41	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	159.98	kPa	442.05	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	162.80	kPa	442.77	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	165.61	kPa	443.49	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	168.53	kPa	444.23	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	171.39	kPa	444.93	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	173.63	kPa	445.49	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	176.52	kPa	446.19	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	178.85	kPa	446.75	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	181.82	kPa	447.44	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	184.55	kPa	448.07	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	186.86	kPa	448.61	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	84.44	kPa	417.22	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	192.00	kPa	449.81	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	195.54	kPa	450.56	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	40.00	kPa	391.78	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	40.00	kPa	391.87	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	40.00	kPa	391.90	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	81.41	kPa	415.90	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	79.03	kPa	414.83	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	76.48	kPa	413.68	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	74.01	kPa	412.52	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	71.53	kPa	411.32	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	69.09	kPa	410.11	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	66.76	kPa	408.93	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	64.58	kPa	407.78	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	15.58	kPa	365.30	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	59.01	kPa	404.73	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	56.55	kPa	403.31	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	54.42	kPa	402.01	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	52.12	kPa	400.61	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	49.15	kPa	398.71	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	46.56	kPa	396.96	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	44.15	kPa	395.26	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	41.74	kPa	393.48	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	61.77	kPa	406.27	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	39.52	kPa	391.80	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	36.62	kPa	389.45	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	33.80	kPa	387.02	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	31.22	kPa	384.65	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	111.54	kPa	427.60	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	108.99	kPa	426.71	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	106.50	kPa	425.83	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	104.00	kPa	424.92	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	101.32	kPa	423.94	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	100.44	kPa	423.61	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	99.35	kPa	423.20	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	155.08	kPa	440.76	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	98.40	kPa	422.83	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)

pvap	95.25	kPa	421.62	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	28.78	kPa	382.25	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	26.35	kPa	379.71	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	20.58	kPa	372.81	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	18.07	kPa	369.25	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	19.81	kPa	371.37	Vapor-Liquid Equilibrium Studies for Systems Containing n-Butylisocyanate at Temperatures between 323.15 K and 371.15 K

pvap	9.00	kPa	351.53	Vapor-Liquid Equilibrium Studies for Systems Containing n-Butylisocyanate at Temperatures between 323.15 K and 371.15 K
pvap	4.99	kPa	338.33	Vapor-Liquid Equilibrium Studies for Systems Containing n-Butylisocyanate at Temperatures between 323.15 K and 371.15 K
pvap	2.34	kPa	322.59	Vapor-Liquid Equilibrium Studies for Systems Containing n-Butylisocyanate at Temperatures between 323.15 K and 371.15 K
pvap	40.00	kPa	392.17	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	92.43	kPa	420.50	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	49.24	kPa	399.76	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems

pvap	58.04	kPa	404.65	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	66.68	kPa	409.14	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	75.48	kPa	413.23	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	84.18	kPa	417.05	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	93.72	kPa	420.83	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems

pvap	101.70	kPa	423.88	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	101.30	kPa	423.80	Isobaric vapor-liquid equilibrium for the binary mixtures of nonane with cyclohexane, toluene, m-xylene, or p-xylene at 101.3 kPa
pvap	10.28	kPa	353.15	Vapor liquid equilibria and density measurement for binary mixtures of toluene, benzene, o-xylene, m-xylene, sulfolane and nonane at 333.15K and 353.15K
pvap	3.97	kPa	333.15	Vapor liquid equilibria and density measurement for binary mixtures of toluene, benzene, o-xylene, m-xylene, sulfolane and nonane at 333.15K and 353.15K
pvap	9.65	kPa	353.15	Measurement of vapor.liquid equilibria (VLE) and excess enthalpies (HE) of binary systems with 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide and prediction of these properties and A using modified UNIFAC (Dortmund)

pvap	39.96	kPa	392.77	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	189.75	kPa	449.27	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
pvap	23.49	kPa	376.46	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10)
rfi	1.40550		293.13	Isobaric Vapor-Liquid Equilibria of the Ternary System Pentan-1-ol + Pentyl Acetate + Nonane
rfi	1.40326		298.15	Liquid-Liquid Equilibria of the Ternary Systems of Alkane + Aromatic + 1-Ethylpyridinium Ethylsulfate Ionic Liquid at T = (283.15 and 298.15) K
rfi	1.40326		298.15	Separation of Benzene from Linear Alkanes (C6-C9) Using 1-Ethyl-3-Methylimidazolium Ethylsulfate at T = 298.15 K
rfi	1.40550		293.15	Isobaric Vapor-Liquid Equilibria of the Ternary System Dibutyl Ether + 1-Pentanol + Nonane

rfi	1.40550	293.15	Activity Coefficients at Infinite Dilution of Cyclohexylamine + Octane, Toluene, Ethylbenzene, or Aniline and Excess Molar Volumes in Binary Mixtures of Cyclohexylamine + Heptane, Octane, Nonane, Decane, Undecane, Aniline, or Water
rfi	1.40550	293.15	Isobaric Vapor-Liquid Equilibria of the Ternary System Methylbutyl Ketone + 1-Pentanol + Nonane
rfi	1.40580	293.15	Activity Coefficients at Infinite Dilution and Excess Molar Volumes in Binary Mixtures Containing Normal Alkanes (Nonane, Decane, Undecane, or Dodecane) and Cresols (2-Methylphenol or 3-Methylphenol)
rfi	1.40570	293.15	Infinite Dilution Activity Coefficients of Hydrocarbons in Triethylene Glycol and Tetraethylene Glycol
rfi	1.40560	293.15	P-rho-T Data and Modeling for Propan-1-ol + n-Octane or n-Nonane or n-Decane from 313.15 K to 363.15 K and 1 MPa to 20 MPa

rfi	1.40740	293.15	Vapor-Liquid Equilibrium Measurements of Ethanol and n-Nonane or n-Decane Binary Mixtures with Large Relative Volatility
rfi	1.40326	298.15	Extraction of toluene from aliphatic compounds using an ionic liquid as solvent: Influence of the alkane on the (liquid + liquid) equilibrium
rfi	1.39730	308.15	Excess properties of the binary mixtures of methylcyclohexane + alkanes (C6 to C12) at T = 298.15 K to T = 308.15 K
rfi	1.39980	303.15	Excess properties of the binary mixtures of methylcyclohexane + alkanes (C6 to C12) at T = 298.15 K to T = 308.15 K
rfi	1.40210	298.15	Excess properties of the binary mixtures of methylcyclohexane + alkanes (C6 to C12) at T = 298.15 K to T = 308.15 K
rfi	1.40020	303.15	Physical properties of {anisole + n-alkanes} at temperatures between (293.15 and 303.15) K
rfi	1.40680	293.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of 1,2,3,4-Tetrahydronaphthalene with Some n-Alkanes at T = (293.15 to 313.15) K

rfi	1.40400	293.15	Physical properties of {anisole + n-alkanes} at temperatures between (293.15 and 303.15) K
rfi	1.39390	318.15	Thermodynamic properties of (an ester + an alkane). XVI. Experimental HEm and V Em values and a new correlation method for (an alkyl ethanoate + an n-alkane) at 318.15 K
rfi	1.40311	298.15	KDB
rfi	1.40220	303.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of 1,2,3,4-Tetrahydronaphthalene with Some n-Alkanes at T = (293.15 to 313.15) K
rfi	1.40310	298.15	Multiproperty Correlation of Experimental Data of the Binaries Propyl Ethanoate + Alkanes (Pentane to Decane). New Experimental Information for Vapor Liquid Equilibrium and Mixing Properties
rfi	1.39380	318.15	Multiproperty Correlation of Experimental Data of the Binaries Propyl Ethanoate + Alkanes (Pentane to Decane). New Experimental Information for Vapor Liquid Equilibrium and Mixing Properties

rfi	1.40320		298.15	Improvements in the Experimentation and the Representation of Thermodynamic Properties (iso-p VLE and yE) of Alkyl Propanoate + Alkane Binaries
rfi	1.40550		293.15	Isobaric Vapor Liquid Equilibria of the Ternary System 1-Pentanol + Nonane Anisole
rfi	1.40320		298.15	Measurements and Correlations of the Isobaric Vapor Liquid Equilibria of Binary Mixtures and Excess Properties for Mixtures Containing an Alkyl (Methyl, Ethyl) Butanoate with an Alkane (Heptane, Nonane) at 101.3 kPa
rfi	1.40270		298.15	Physical properties of {anisole + n-alkanes} at temperatures between (293.15 and 303.15) K
rhoI	698.40	kg/m3	318.15	Excess Molar Volume along with Viscosity, Flash Point, and Refractive Index for Binary Mixtures of cis-Decalin or trans-Decalin with C9 to C11 n-Alkanes
rhoI	718.00	kg/m3	293.00	KDB
rhoI	714.06	kg/m3	298.15	Thermodynamics of Mixtures Containing a Strongly Polar Compound. 9. Liquid-Liquid Equilibria for epsilon-Caprolactam + Selected Alkanes

rhoI	702.26	kg/m3	313.15	Excess Molar Volumes and Viscosities of Binary Systems of Butylcyclohexane with n-Alkanes (C7 to C14) at T = 293.15 K to 313.15 K
rhoI	706.19	kg/m3	308.15	Excess Molar Volumes and Viscosities of Binary Systems of Butylcyclohexane with n-Alkanes (C7 to C14) at T = 293.15 K to 313.15 K
rhoI	710.10	kg/m3	303.15	Excess Molar Volumes and Viscosities of Binary Systems of Butylcyclohexane with n-Alkanes (C7 to C14) at T = 293.15 K to 313.15 K
rhoI	714.00	kg/m3	298.15	Excess Molar Volumes and Viscosities of Binary Systems of Butylcyclohexane with n-Alkanes (C7 to C14) at T = 293.15 K to 313.15 K
rhoI	717.88	kg/m3	293.15	Excess Molar Volumes and Viscosities of Binary Systems of Butylcyclohexane with n-Alkanes (C7 to C14) at T = 293.15 K to 313.15 K
rhoI	714.06	kg/m3	298.15	Thermodynamics of mixtures containing amines VI. Liquid liquid equilibria for mixtures of o-toluidine + selected alkanes

rhoI	718.42	kg/m3	293.15	Liquid liquid equilibrium of ternary systems 1-butyl-3-methylimidazolium hexafluorophosphate + aromatic + aliphatic
rhoI	717.88	kg/m3	293.15	An Isothermal vapour-liquid equilibrium data for the binary systems of CHF3 with (n-nonane, n-decane, or n-undecane) and C2F6 with (n-nonane or n-decane)
rhoI	716.60	kg/m3	294.15	An Isothermal vapour-liquid equilibrium data for the binary systems of CHF3 with (n-nonane, n-decane, or n-undecane) and C2F6 with (n-nonane or n-decane)
rhoI	715.82	kg/m3	295.15	An Isothermal vapour-liquid equilibrium data for the binary systems of CHF3 with (n-nonane, n-decane, or n-undecane) and C2F6 with (n-nonane or n-decane)
rhoI	715.04	kg/m3	296.15	An Isothermal vapour-liquid equilibrium data for the binary systems of CHF3 with (n-nonane, n-decane, or n-undecane) and C2F6 with (n-nonane or n-decane)
rhoI	714.27	kg/m3	297.15	An Isothermal vapour-liquid equilibrium data for the binary systems of CHF3 with (n-nonane, n-decane, or n-undecane) and C2F6 with (n-nonane or n-decane)

rhoI	713.69	kg/m3	298.15	An Isothermal vapour-liquid equilibrium data for the binary systems of CHF ₃ with (n-nonane, n-decane, or n-undecane) and C ₂ F ₆ with (n-nonane or n-decane)
rhoI	713.99	kg/m3	298.15	Evaluation of ionic liquids as solvent for aromatic extraction: Experimental, correlation and COSMO-RS predictions
rhoI	725.58	kg/m3	283.15	Density, viscosity and excess molar volume of binary mixtures of tri-n-octylamine + diluents (n-heptane, n-octane, n-nonane, and n-decane) at various temperatures
rhoI	717.86	kg/m3	293.15	Density, viscosity and excess molar volume of binary mixtures of tri-n-octylamine + diluents (n-heptane, n-octane, n-nonane, and n-decane) at various temperatures
rhoI	710.06	kg/m3	303.15	Density, viscosity and excess molar volume of binary mixtures of tri-n-octylamine + diluents (n-heptane, n-octane, n-nonane, and n-decane) at various temperatures

rhoI	713.95	kg/m3	298.15	Density, viscosity and excess molar volume of binary mixtures of tri-n-octylamine + diluents (n-heptane, n-octane, n-nonane, and n-decane) at various temperatures
rhoI	713.90	kg/m3	298.15	(Liquid + liquid) equilibrium at T = 298.15 K for ternary mixtures of alkane + aromatic compounds + imidazolium-based ionic liquids
rhoI	714.00	kg/m3	298.15	Excess molar enthalpies for binary mixtures of cyclopentanone, cyclohexanone, or cycloheptanone with n-nonane at T = 298.15 K and atmospheric pressure
rhoI	714.05	kg/m3	298.15	Liquid-liquid equilibria for (2-hydroxy benzaldehyde + n-alkane) mixtures. Intermolecular and proximity effects in systems containing hydroxyl and aldehyde groups
rhoI	721.64	kg/m3	288.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
rhoI	717.78	kg/m3	293.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa

rhoI	713.91	kg/m3	298.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
rhoI	710.03	kg/m3	303.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
rhoI	694.43	kg/m3	323.15	Excess Molar Volume along with Viscosity, Flash Point, and Refractive Index for Binary Mixtures of cis-Decalin or trans-Decalin with C9 to C11 n-Alkanes
rhoI	702.20	kg/m3	313.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
rhoI	698.26	kg/m3	318.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
rhoI	694.30	kg/m3	323.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
rhoI	690.33	kg/m3	328.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
rhoI	686.34	kg/m3	333.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa

rhoI	682.31	kg/m3	338.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
rhoI	678.26	kg/m3	343.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
rhoI	714.06	kg/m3	298.15	Thermodynamics of Mixtures Containing a Strongly Polar Compound. 8. Liquid-Liquid Equilibria for N,N-Dialkylamide + Selected N-Alkanes
rhoI	724.54	kg/m3	285.15	Measurements of Density and Heat Capacity for Binary Mixtures {x Benzonitrile + (1 -x) (Octane or Nonane)}
rhoI	722.22	kg/m3	288.15	Measurements of Density and Heat Capacity for Binary Mixtures {x Benzonitrile + (1 -x) (Octane or Nonane)}
rhoI	718.35	kg/m3	293.15	Measurements of Density and Heat Capacity for Binary Mixtures {x Benzonitrile + (1 -x) (Octane or Nonane)}
rhoI	714.46	kg/m3	298.15	Measurements of Density and Heat Capacity for Binary Mixtures {x Benzonitrile + (1 -x) (Octane or Nonane)}
rhoI	710.55	kg/m3	303.15	Measurements of Density and Heat Capacity for Binary Mixtures {x Benzonitrile + (1 -x) (Octane or Nonane)}

rhoI	706.63	kg/m3	308.15	Measurements of Density and Heat Capacity for Binary Mixtures {x Benzonitrile + (1 -x) (Octane or Nonane)}
rhoI	702.70	kg/m3	313.15	Measurements of Density and Heat Capacity for Binary Mixtures {x Benzonitrile + (1 -x) (Octane or Nonane)}
rhoI	713.94	kg/m3	298.20	Apparent and Partial Molar Volumes at Infinite Dilution and Solid Liquid Equilibria of Dibenzothiophene + Alkane Systems
rhoI	732.83	kg/m3	273.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	729.01	kg/m3	278.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	725.16	kg/m3	283.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	721.32	kg/m3	288.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa

rhoI	717.45	kg/m3	293.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	713.58	kg/m3	298.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	709.69	kg/m3	303.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	705.78	kg/m3	308.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	701.86	kg/m3	313.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	697.91	kg/m3	318.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa

rhoI	693.95	kg/m3	323.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	689.97	kg/m3	328.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	685.97	kg/m3	333.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	681.94	kg/m3	338.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	677.88	kg/m3	343.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	673.91	kg/m3	348.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa

rhoI	669.71	kg/m3	353.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	665.58	kg/m3	358.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	661.14	kg/m3	363.15	Experimental Liquid Densities of n-Pentane, n-Octane, and n-Nonane and Their Binary Mixtures from (273.15 to 363.15) K at 0.1 MPa
rhoI	717.94	kg/m3	293.15	Excess Molar Volume along with Viscosity, Flash Point, and Refractive Index for Binary Mixtures of cis-Decalin or trans-Decalin with C9 to C11 n-Alkanes
rhoI	714.11	kg/m3	298.15	Excess Molar Volume along with Viscosity, Flash Point, and Refractive Index for Binary Mixtures of cis-Decalin or trans-Decalin with C9 to C11 n-Alkanes
rhoI	710.20	kg/m3	303.15	Excess Molar Volume along with Viscosity, Flash Point, and Refractive Index for Binary Mixtures of cis-Decalin or trans-Decalin with C9 to C11 n-Alkanes

rhoI	706.29	kg/m3	308.15	Excess Molar Volume along with Viscosity, Flash Point, and Refractive Index for Binary Mixtures of cis-Decalin or trans-Decalin with C9 to C11 n-Alkanes
rhoI	702.35	kg/m3	313.15	Excess Molar Volume along with Viscosity, Flash Point, and Refractive Index for Binary Mixtures of cis-Decalin or trans-Decalin with C9 to C11 n-Alkanes
rhoI	706.12	kg/m3	308.15	Densities and Viscosities of Corn Oil + n-Alkanes Blends from (288.15 to 343.15) K at 0.1 MPa
speedsI	755.60	m/s	418.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsI	1069.30	m/s	333.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsI	844.70	m/s	393.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K

speedsl	826.70	m/s	398.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	808.80	m/s	403.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	790.90	m/s	408.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	773.20	m/s	413.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	862.90	m/s	388.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	881.10	m/s	383.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	899.50	m/s	378.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K

speedsl	917.90	m/s	373.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	936.50	m/s	368.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	955.20	m/s	363.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	973.90	m/s	358.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	992.80	m/s	353.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	1011.80	m/s	348.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	1030.80	m/s	343.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K

speedsl	1050.00	m/s	338.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	1167.30	m/s	308.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	1088.70	m/s	328.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	1108.20	m/s	323.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	1127.80	m/s	318.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	1147.50	m/s	313.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	738.00	m/s	423.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K

speedsl	1187.20	m/s	303.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	1207.20	m/s	298.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
speedsl	1227.30	m/s	293.15	Temperature Dependence of the Speed of Sound of Nonane + 1-Chlorononane in the Range of (293.15 to 423.15) K
srf	0.02	N/m	293.15	Surface Tension of Dilute Solutions of Alkanes in Cyclohexanol at Different Temperatures
srf	0.02	N/m	318.15	Surface Tension of Dilute Solutions of Alkanes in Cyclohexanol at Different Temperatures
srf	0.02	N/m	313.15	Surface Tension of Dilute Solutions of Alkanes in Cyclohexanol at Different Temperatures
srf	0.02	N/m	308.15	Surface Tension of Dilute Solutions of Alkanes in Cyclohexanol at Different Temperatures
srf	0.02	N/m	298.15	Surface Tension of Dilute Solutions of Alkanes in Cyclohexanol at Different Temperatures

srf	0.02	N/m	323.15	Surface Tension of Dilute Solutions of Alkanes in Cyclohexanol at Different Temperatures	
srf	0.02	N/m	303.15	Density, Refractive Index, Viscosity, and Surface Tension of Binary Mixtures of <i>exo</i> -Tetrahydrodicyclopentadiene with Some <i>n</i> -Alkanes from (293.15 to 313.15) K	
srf	0.02	N/m	293.15	Density, Refractive Index, Viscosity, and Surface Tension of Binary Mixtures of <i>exo</i> -Tetrahydrodicyclopentadiene with Some <i>n</i> -Alkanes from (293.15 to 313.15) K	
srf	0.02	N/m	323.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol	
srf	0.02	N/m	318.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol	
srf	0.02	N/m	313.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol	
srf	0.02	N/m	308.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol	
srf	0.02	N/m	303.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol	
srf	0.02	N/m	298.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol	

srf	0.02	N/m	303.15	Surface Tension of Dilute Solutions of Alkanes in Cyclohexanol at Different Temperatures
srf	0.02	N/m	308.15	Density and surface tension variation with temperature for n-nonane + 1-hexanol
srf	0.02	N/m	298.15	Density and surface tension variation with temperature for n-nonane + 1-hexanol
srf	0.02	N/m	288.15	Density and surface tension variation with temperature for n-nonane + 1-hexanol
srf	0.02	N/m	293.20	KDB
srf	0.02	N/m	293.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.45385e+01
Coeff. B	-3.70195e+03
Coeff. C	-5.07360e+01
Temperature range (K), min.	310.51
Temperature range (K), max.	451.94

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	7.25466e+01
Coeff. B	-7.73941e+03
Coeff. C	-8.32740e+00

Coeff. D	3.89483e-06
Temperature range (K), min.	219.63
Temperature range (K), max.	595.65

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
303.15	101.33	0.0006323
Reference		https://www.doi.org/10.1016/j.fluid.2010.10.009

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
233.15	101.46	763.962
233.15	1176.07	764.563
233.15	2178.21	765.126
233.15	4167.03	766.231
233.15	5936.52	767.203
233.15	8144.53	768.395
233.15	10065.60	769.42
233.15	12147.70	770.516
233.15	14076.40	771.516
233.15	16087.10	772.548
233.15	18066.90	773.551
233.15	19984.50	774.511
233.15	21989.60	775.502
233.15	24043.80	776.506
233.15	25990.20	777.446
233.15	27926.70	778.373
233.15	29906.00	779.308
253.15	101.82	748.678
253.15	1135.27	749.335
253.15	2178.61	749.992

253.15	3967.76	751.107
253.15	6147.47	752.446
253.15	8137.98	753.648
253.15	10112.30	754.82
253.15	12111.20	755.991
253.15	14130.20	757.156
253.15	16140.10	758.299
253.15	18106.10	759.398
253.15	20064.20	760.484
253.15	22026.10	761.552
253.15	23955.00	762.59
253.15	25972.30	763.661
253.15	27912.60	764.677
253.15	29966.80	765.739
273.15	102.52	733.389
273.15	1156.84	734.143
273.15	2137.97	734.842
273.15	4026.01	736.166
273.15	6169.44	737.644
273.15	8161.45	738.99
273.15	10122.00	740.29
273.15	12106.50	741.586
273.15	14100.70	742.864
273.15	16067.00	744.108
273.15	18074.30	745.354
273.15	20036.30	746.555
273.15	21999.70	747.737
273.15	23995.50	748.923
273.15	25993.50	750.093
273.15	27981.50	751.238
273.15	29875.50	752.316
293.15	101.69	717.968
293.15	1184.28	718.847
293.15	2129.17	719.604
293.15	3960.49	721.055
293.15	6115.45	722.729
293.15	7981.56	724.145
293.15	10014.70	725.663
293.15	12148.60	727.214
293.15	13981.10	728.526
293.15	16170.10	730.062
293.15	17942.90	731.285
293.15	20200.00	732.813
293.15	22156.50	734.115

293.15	24157.90	735.421
293.15	26136.50	736.696
293.15	28126.30	737.958
293.15	29978.50	739.115
313.15	98.73	702.339
313.15	1168.73	703.323
313.15	2131.95	704.205
313.15	3967.37	705.852
313.15	6162.29	707.777
313.15	8113.86	709.449
313.15	10023.50	711.038
313.15	12172.80	712.791
313.15	14170.00	714.384
313.15	16194.40	715.964
313.15	17956.10	717.315
313.15	20057.40	718.889
313.15	22190.80	720.459
313.15	24136.30	721.862
313.15	26139.10	723.282
313.15	28073.10	724.629
313.15	29972.40	725.932
333.15	102.84	686.431
333.15	1137.45	687.521
333.15	2113.93	688.539
333.15	4162.71	690.632
333.15	6145.33	692.599
333.15	8151.89	694.535
333.15	10023.60	696.296
333.15	12113.90	698.208
333.15	14126.60	700.005
333.15	15989.20	701.627
333.15	18027.40	703.362
333.15	19954.20	704.977
333.15	22112.40	706.723
333.15	24079.90	708.292
333.15	26037.60	709.821
333.15	28054.20	711.366
333.15	29912.30	712.772
353.15	97.13	671.217
353.15	2136.70	672.617
353.15	6141.90	677.222
353.15	8110.87	679.378
353.15	10054.10	681.439
353.15	12124.00	683.57

353.15	14143.80	685.589
353.15	15989.00	687.385
353.15	18010.60	689.305
353.15	20035.80	691.174
353.15	21991.10	692.938
353.15	23964.80	694.678
353.15	25968.30	696.403
353.15	27955.30	698.078
353.15	29938.70	699.718
373.15	102.37	653.427
373.15	1227.94	655.018
373.15	2148.86	656.298
373.15	4131.53	658.968
373.15	6127.03	661.551
373.15	8138.76	664.058
373.15	10022.20	666.323
373.15	12111.60	668.749
373.15	14118.80	671.003
373.15	16133.90	673.197
373.15	18104.00	675.276
373.15	20078.30	677.302
373.15	22063.50	679.286
373.15	23987.70	681.158
373.15	26124.00	683.184
373.15	28010.20	684.93
373.15	29904.70	686.647

Reference

<https://www.doi.org/10.1016/j.jct.2008.02.020>

Pressure, kPa	Temperature, K	Mass density, kg/m3
100.00	298.15	713.93

Reference

<https://www.doi.org/10.1016/j.jct.2017.09.027>

Temperature, K	Pressure, kPa	Mass density, kg/m3
283.15	1010.00	726.22
283.15	5040.00	729.17
283.15	10020.00	732.75
283.15	15020.00	736.14
283.15	20040.00	739.41
283.15	25020.00	742.54
283.15	30040.00	745.52

283.15	35050.00	748.45
283.15	40010.00	751.23
283.15	45050.00	753.99
283.15	50010.00	756.62
283.15	55020.00	759.19
283.15	60030.00	761.66
283.15	65010.00	764.08
283.15	5020.00	729.22
298.15	1020.00	714.83
298.15	5010.00	718.08
298.15	10030.00	721.94
298.15	15060.00	725.7
298.15	20040.00	729.17
298.15	25040.00	732.54
298.15	30010.00	735.76
298.15	35050.00	738.87
298.15	40010.00	741.88
298.15	45060.00	744.79
298.15	50010.00	747.56
298.15	55040.00	750.31
298.15	60020.00	752.92
298.15	65010.00	755.48
298.15	5040.00	718.12
323.15	1030.00	695.27
323.15	5030.00	699.04
323.15	10050.00	703.57
323.15	15020.00	707.81
323.15	20050.00	711.84
323.15	25020.00	715.63
323.15	30020.00	719.22
323.15	35080.00	722.75
323.15	40050.00	726.09
323.15	45060.00	729.27
323.15	50030.00	732.36
323.15	55050.00	735.35
323.15	60010.00	738.19
323.15	65010.00	741.02
323.15	5060.00	699.09
348.15	1010.00	675.18
348.15	5040.00	679.76
348.15	10030.00	685.0
348.15	15020.00	689.84
348.15	20040.00	694.44
348.15	25050.00	698.79

348.15	30030.00	702.84
348.15	35050.00	706.74
348.15	40020.00	710.4
348.15	45070.00	714.01
348.15	50040.00	717.37
348.15	55050.00	720.67
348.15	60000.00	723.79
348.15	65040.00	726.84
348.15	5030.00	679.76
373.15	1010.00	654.52
373.15	5050.00	659.99
373.15	10030.00	666.13
373.15	15070.00	671.78
373.15	20030.00	677.04
373.15	25060.00	681.94
373.15	30040.00	686.51
373.15	35060.00	690.83
373.15	40020.00	694.95
373.15	45070.00	698.87
373.15	50070.00	702.65
373.15	55060.00	706.23
373.15	60040.00	709.66
373.15	65030.00	712.95
373.15	5050.00	659.99
398.15	1020.00	633.06
398.15	5020.00	639.53
398.15	10050.00	646.89
398.15	15070.00	653.53
398.15	20020.00	659.49
398.15	25030.00	665.05
398.15	30050.00	670.22
398.15	35050.00	675.1
398.15	40020.00	679.63
398.15	45070.00	683.97
398.15	50020.00	688.07
398.15	55040.00	692.01
398.15	60030.00	695.72
398.15	65040.00	699.37
398.15	5030.00	639.58
423.15	1020.00	610.45
423.15	5030.00	618.42
423.15	10030.00	627.15
423.15	15030.00	634.86
423.15	20040.00	641.8

423.15	25040.00	648.1
423.15	30020.00	653.92
423.15	35050.00	659.35
423.15	40020.00	664.4
423.15	45020.00	669.15
423.15	50040.00	673.7
423.15	55020.00	677.97
423.15	60030.00	682.03
423.15	65040.00	685.95
423.15	5030.00	618.47
448.15	1000.00	586.37
448.15	5020.00	596.41
448.15	10040.00	607.05
448.15	15010.00	616.06
448.15	20010.00	624.0
448.15	25040.00	631.27
448.15	30030.00	637.78
448.15	35030.00	643.8
448.15	40010.00	649.38
448.15	45050.00	654.67
448.15	50020.00	659.58
448.15	55040.00	664.24
448.15	60030.00	668.62
448.15	65020.00	672.85
448.15	5020.00	596.46
473.15	5010.00	573.14
473.15	10040.00	586.15
473.15	15040.00	596.86
473.15	20020.00	606.05
473.15	25050.00	614.28
473.15	30020.00	621.6
473.15	35030.00	628.3
473.15	40050.00	634.51
473.15	45050.00	640.25
473.15	50040.00	645.6
473.15	55020.00	650.62
473.15	60010.00	655.39
473.15	65010.00	659.92
473.15	5010.00	573.14

Reference

<https://www.doi.org/10.1016/j.jct.2018.04.019>

Temperature, K

Pressure, kPa

Mass density, kg/m³

293.21	1993.00	719.36
293.21	3991.00	721.16
293.21	5993.00	722.88
293.21	7996.00	724.42
293.21	10001.00	725.92
293.21	13001.00	728.0
293.22	16000.00	730.02
293.21	19004.00	732.11
293.21	22005.00	734.14
293.21	24997.00	736.13
293.21	27997.00	738.31
293.21	29995.00	739.58
313.11	2000.00	704.08
313.11	4007.00	705.88
313.11	6006.00	707.62
313.11	8004.00	709.24
313.11	10007.00	710.92
313.11	13003.00	713.28
313.11	16007.00	715.76
313.10	19007.00	718.18
313.10	22007.00	720.52
313.10	25009.00	722.7
313.10	28007.00	724.82
313.10	30010.00	726.21
333.00	2014.00	688.53
333.00	3990.00	690.6
333.00	5995.00	692.58
333.01	8001.00	694.51
333.01	10007.00	696.11
333.01	13004.00	698.84
333.01	16002.00	701.48
333.01	19006.00	704.03
333.01	22003.00	706.5
333.01	25006.00	708.9
333.01	28003.00	711.23
333.01	30012.00	712.74
353.12	2004.00	672.27
353.12	3995.00	674.59
353.12	6000.00	676.83
353.12	8005.00	679.1
353.12	10010.00	681.31
353.12	13002.00	684.37
353.12	16003.00	687.3
353.12	18999.00	689.99

353.12	22002.00	692.72
353.12	25004.00	695.35
353.12	28007.00	697.9
353.12	30003.00	699.56

Reference

<https://www.doi.org/10.1021/acs.jced.7b00650>

Pressure, kPa	Temperature, K	Mass density, kg/m3
100.00	283.15	725.6
100.00	288.15	721.6
100.00	293.15	717.8
100.00	298.15	713.7
100.00	303.15	709.9
100.00	308.15	706.0
100.00	313.15	701.9
100.00	318.15	698.1
100.00	323.15	694.1
3000.00	283.15	727.7
3000.00	288.15	723.8
3000.00	293.15	720.0
3000.00	298.15	716.1
3000.00	303.15	712.3
3000.00	308.15	708.5
3000.00	313.15	704.5
3000.00	318.15	700.7
3000.00	323.15	696.9
5000.00	283.15	729.1
5000.00	288.15	725.3
5000.00	293.15	721.5
5000.00	298.15	717.7
5000.00	303.15	713.9
5000.00	308.15	710.1
5000.00	313.15	706.3
5000.00	318.15	702.4
5000.00	323.15	698.6
7500.00	283.15	730.8
7500.00	288.15	727.0
7500.00	293.15	723.4
7500.00	298.15	719.5
7500.00	303.15	715.8
7500.00	308.15	712.1
7500.00	313.15	708.3
7500.00	318.15	704.6

7500.00	323.15	700.8
10000.00	283.15	732.6
10000.00	288.15	728.9
10000.00	293.15	725.2
10000.00	298.15	721.5
10000.00	303.15	717.8
10000.00	308.15	714.2
10000.00	313.15	710.4
10000.00	318.15	706.8
10000.00	323.15	703.0
20000.00	283.15	739.2
20000.00	288.15	735.7
20000.00	293.15	732.2
20000.00	298.15	728.7
20000.00	303.15	725.2
20000.00	308.15	721.7
20000.00	313.15	718.2
20000.00	318.15	714.7
20000.00	323.15	711.2
30000.00	283.15	745.3
30000.00	288.15	742.0
30000.00	293.15	738.7
30000.00	298.15	735.2
30000.00	303.15	731.9
30000.00	308.15	728.5
30000.00	313.15	725.3
30000.00	318.15	721.9
30000.00	323.15	718.6
40000.00	283.15	751.1
40000.00	288.15	747.9
40000.00	293.15	744.6
40000.00	298.15	741.4
40000.00	303.15	738.2
40000.00	308.15	735.0
40000.00	313.15	731.8
40000.00	318.15	728.6
40000.00	323.15	725.4
50000.00	283.15	756.4
50000.00	288.15	753.4
50000.00	293.15	750.3
50000.00	298.15	747.1
50000.00	303.15	744.1
50000.00	308.15	740.9
50000.00	313.15	737.8

50000.00	318.15	734.8
50000.00	323.15	731.6
60000.00	283.15	761.6
60000.00	288.15	758.5
60000.00	293.15	755.5
60000.00	298.15	752.5
60000.00	303.15	749.5
60000.00	308.15	746.6
60000.00	313.15	743.5
60000.00	318.15	740.5
60000.00	323.15	737.5

Reference

<https://www.doi.org/10.1021/je8006875>

Speed of sound, m/s

Pressure, kPa - Liquid	Temperature, K - Liquid	Speed of sound, m/s - Liquid
100.00	293.15	1226.379
100.00	313.15	1146.226
100.00	333.15	1068.198
100.00	353.15	992.6189
100.00	373.15	922.1599
100.00	393.15	867.4314
10000.00	293.15	1288.02
10000.00	313.15	1212.824
10000.00	333.15	1140.94
10000.00	353.15	1072.568
10000.00	373.15	1004.987
10000.00	393.15	946.865
20000.00	293.15	1344.821
20000.00	313.15	1274.241
20000.00	333.15	1206.915
20000.00	353.15	1142.609
20000.00	373.15	1081.282
20000.00	393.15	1022.924
30000.00	293.15	1396.854
30000.00	313.15	1329.834
30000.00	333.15	1266.203
30000.00	353.15	1205.597
30000.00	373.15	1148.091
30000.00	393.15	1093.674

40000.00	293.15	1445.084
40000.00	313.15	1380.943
40000.00	353.15	1262.461
40000.00	373.15	1207.979
40000.00	393.15	1156.595
50000.00	293.15	1490.057
50000.00	313.15	1428.288
50000.00	333.15	1369.835
50000.00	353.15	1314.591
50000.00	373.15	1262.528
50000.00	393.15	1213.59
60000.00	293.15	1532.464
60000.00	313.15	1472.742
60000.00	333.15	1416.313
60000.00	353.15	1363.169
60000.00	373.15	1313.133
60000.00	393.15	1266.136
70000.00	293.15	1572.512
70000.00	313.15	1514.719
70000.00	333.15	1460.059
70000.00	353.15	1408.501
70000.00	373.15	1360.053
70000.00	393.15	1314.71
80000.00	293.15	1610.591
80000.00	313.15	1554.351
80000.00	333.15	1501.308
80000.00	353.15	1451.316
80000.00	373.15	1404.349
80000.00	393.15	1360.387
90000.00	293.15	1646.928
90000.00	313.15	1592.049
90000.00	333.15	1540.349
90000.00	353.15	1491.697
90000.00	373.15	1446.071
90000.00	393.15	1403.307
100000.00	293.15	1681.563
100000.00	313.15	1628.026
100000.00	333.15	1577.369
100000.00	353.15	1529.841
100000.00	373.15	1485.463
100000.00	393.15	1443.653

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100% "A" grade

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"I'm sorry," said the man.

doi:10.1371/journal.pone.0141311.g002

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gf:	Standard Gibbs free energy of formation
hcg:	Heat of Combustion, Gross form
hcn:	Heat of Combustion, Net Form
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
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
nfpaf:	NFPA Fire Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhoc:	Critical density
rhof:	Liquid Density
rinpol:	Non-polar retention indices
sg:	Molar entropy at standard conditions
sl:	Liquid phase molar entropy at standard conditions
speedsl:	Speed of sound in fluid
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter

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