

Tetradecane

Other names:	n-Tetradecane
Inchi:	InChI=1S/C14H30/c1-3-5-7-9-11-13-14-12-10-8-6-4-2/h3-14H2,1-2H3
InchiKey:	BGHCVCJVXZWKCC-UHFFFAOYSA-N
Formula:	C14H30
SMILES:	CCCCCCCCCCCCCCC
Mol. weight [g/mol]:	198.39
CAS:	629-59-4

Physical Properties

Property code	Value	Unit	Source
af	0.5810		KDB
chg	-9393.50 ± 1.60	kJ/mol	NIST Webbook
gf	66.86	kJ/mol	KDB
hf	-332.30	kJ/mol	KDB
hf	-332.10 ± 1.80	kJ/mol	NIST Webbook
hfl	-403.30 ± 1.80	kJ/mol	NIST Webbook
hfus	32.02	kJ/mol	Joback Method
hsub	117.60	kJ/mol	NIST Webbook
hvap	71.70	kJ/mol	NIST Webbook
hvap	71.40	kJ/mol	NIST Webbook
hvap	71.10 ± 0.40	kJ/mol	NIST Webbook
hvap	71.70	kJ/mol	NIST Webbook
hvap	71.20	kJ/mol	NIST Webbook
hvap	72.00 ± 2.40	kJ/mol	NIST Webbook
hvap	72.10	kJ/mol	NIST Webbook
hvap	71.60 ± 1.30	kJ/mol	NIST Webbook
hvap	71.30	kJ/mol	NIST Webbook
hvap	71.80 ± 0.60	kJ/mol	NIST Webbook
log10ws	-7.96		Aqueous Solubility Prediction Method
log10ws	-7.96		Estimated Solubility Method
logp	5.707		Crippen Method
mcvol	208.120	ml/mol	McGowan Method
pc	1600.00 ± 200.00	kPa	NIST Webbook
pc	1440.00	kPa	NIST Webbook
pc	1438.00 ± 68.94	kPa	NIST Webbook
pc	1573.00 ± 20.00	kPa	NIST Webbook

pc	1570.00	kPa	KDB
rhoc	218.23 ± 39.68	kg/m3	NIST Webbook
rhoc	222.19 ± 5.95	kg/m3	NIST Webbook
rinpol	239.35		NIST Webbook
rinpol	236.21		NIST Webbook
sg	700.40	J/mol×K	NIST Webbook
sl	555.43	J/mol×K	NIST Webbook
sl	562.30	J/mol×K	NIST Webbook
tb	524.15 ± 0.60	K	NIST Webbook
tb	525.15 ± 0.40	K	NIST Webbook
tb	528.00 ± 2.00	K	NIST Webbook
tb	526.40 ± 0.30	K	NIST Webbook
tb	526.04 ± 0.30	K	NIST Webbook
tb	512.00 ± 3.00	K	NIST Webbook
tb	526.73	K	KDB
tb	510.00 ± 6.00	K	NIST Webbook
tb	525.70 ± 3.00	K	NIST Webbook
tb	526.90	K	NIST Webbook
tc	693.00	K	KDB
tc	693.00 ± 2.00	K	NIST Webbook
tc	693.00 ± 1.20	K	NIST Webbook
tc	691.80 ± 0.70	K	NIST Webbook
tc	693.00 ± 1.20	K	NIST Webbook
tc	694.00	K	NIST Webbook
tc	692.80 ± 1.00	K	NIST Webbook
tc	692.80 ± 1.00	K	NIST Webbook
tc	696.90 ± 2.00	K	NIST Webbook
tc	694.15 ± 1.00	K	NIST Webbook
tc	692.30	K	NIST Webbook
tc	691.20 ± 1.50	K	NIST Webbook
tf	277.70 ± 2.00	K	NIST Webbook
tf	277.70 ± 2.00	K	NIST Webbook
tf	278.00 ± 2.00	K	NIST Webbook
tf	278.70 ± 0.70	K	NIST Webbook
tf	277.40 ± 2.00	K	NIST Webbook
tf	278.60 ± 2.00	K	NIST Webbook
tf	278.80 ± 1.00	K	NIST Webbook
tf	279.20 ± 1.00	K	NIST Webbook
tf	279.20 ± 1.00	K	NIST Webbook
tf	279.01 ± 0.02	K	NIST Webbook
tf	277.85 ± 1.00	K	NIST Webbook
tf	279.01 ± 0.01	K	NIST Webbook
tf	279.00 ± 0.05	K	NIST Webbook
tf	278.92 ± 0.20	K	NIST Webbook

tf	278.90 ± 0.30	K	NIST Webbook
tf	279.01 ± 0.01	K	NIST Webbook
tf	279.00 ± 0.01	K	NIST Webbook
tf	279.00 ± 0.01	K	NIST Webbook
tf	279.01	K	KDB
tf	251.00 ± 5.00	K	NIST Webbook
tf	278.40 ± 0.30	K	NIST Webbook
tf	278.90	K	Determination of thermophysical properties of cyclopentane hydrate using a stirred calorimetric cell
tf	278.99 ± 0.30	K	NIST Webbook
tf	278.70 ± 2.00	K	NIST Webbook
tf	279.15 ± 0.50	K	NIST Webbook
tf	279.00 ± 0.20	K	NIST Webbook
tf	279.00 ± 0.20	K	NIST Webbook
tf	278.90 ± 0.20	K	NIST Webbook
tf	279.00 ± 0.20	K	NIST Webbook
tf	279.00 ± 0.20	K	NIST Webbook
tf	279.00 ± 0.20	K	NIST Webbook
tf	278.97 ± 0.02	K	NIST Webbook
tf	278.98	K	Aqueous Solubility Prediction Method
tf	279.00 ± 0.30	K	NIST Webbook
tf	279.40	K	Experimental measurements and thermodynamic modeling of wax disappearance temperature for the binary systems n-C14H30 + n-C16H34, n-C16H34 + n-C18H38 and n-C11H24 + n-C18H38
tf	278.99 ± 0.05	K	NIST Webbook
tt	279.01 ± 0.20	K	NIST Webbook
tt	279.02 ± 0.05	K	NIST Webbook
tt	279.02 ± 0.02	K	NIST Webbook
tt	279.02 ± 0.20	K	NIST Webbook
vc	0.894	m3/kmol	KDB
vc	0.894	m3/kmol	NIST Webbook
zc	0.2435940		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	604.51	J/mol×K	679.33	Joback Method
cpg	505.91	J/mol×K	519.72	Joback Method
cpg	524.00	J/mol×K	546.32	Joback Method
cpg	541.40	J/mol×K	572.92	Joback Method
cpg	558.13	J/mol×K	599.52	Joback Method
cpg	574.22	J/mol×K	626.13	Joback Method
cpg	589.67	J/mol×K	652.73	Joback Method
cpl	434.16	J/mol×K	298.15	NIST Webbook
cpl	438.01	J/mol×K	298.15	NIST Webbook
cpl	434.20	J/mol×K	298.15	NIST Webbook
cpl	438.01	J/mol×K	298.15	NIST Webbook
cpl	438.28	J/mol×K	298.15	NIST Webbook
cpl	433.53	J/mol×K	298.15	NIST Webbook
cpl	434.20	J/mol×K	298.15	NIST Webbook
cpl	435.10	J/mol×K	296.20	NIST Webbook
cpl	434.30	J/mol×K	290.60	NIST Webbook
cpl	433.98	J/mol×K	298.15	NIST Webbook
cpl	438.44	J/mol×K	298.15	NIST Webbook
cpl	436.00	J/mol×K	298.00	NIST Webbook
cpl	436.91	J/mol×K	298.15	NIST Webbook
cpl	436.52	J/mol×K	298.15	NIST Webbook
cpl	436.40	J/mol×K	298.15	NIST Webbook
cpl	433.53	J/mol×K	298.15	NIST Webbook
cpl	434.20	J/mol×K	298.15	NIST Webbook
dvisc	0.0018970	Pa×s	303.15	Densities and Viscosities of Binary Mixtures of exo-Tetrahydrodicyclopentadiene with N-Undecane or N-Tetradecane at T = (293.15 to 313.15) K
dvisc	0.0023460	Pa×s	293.15	Densities and Viscosities of Binary Mixtures of exo-Tetrahydrodicyclopentadiene with N-Undecane or N-Tetradecane at T = (293.15 to 313.15) K
dvisc	0.0021070	Pa×s	298.15	Densities and Viscosities of Binary Mixtures of exo-Tetrahydrodicyclopentadiene with N-Undecane or N-Tetradecane at T = (293.15 to 313.15) K

dvisc	0.0015940	Pa×s	313.15	Densities and Viscosities of Binary Mixtures of exo-Tetrahydrodicyclopentadiene with N-Undecane or N-Tetradecane at T = (293.15 to 313.15) K
hfust	45.07	kJ/mol	279.00	NIST Webbook
hfust	45.07	kJ/mol	279.00	NIST Webbook
hfust	42.70	kJ/mol	278.30	NIST Webbook
hfust	45.07	kJ/mol	279.03	NIST Webbook
hvapt	64.10	kJ/mol	369.00	NIST Webbook
hvapt	65.70	kJ/mol	359.00	NIST Webbook
hvapt	70.10	kJ/mol	313.00	NIST Webbook
hvapt	67.80	kJ/mol	373.00	NIST Webbook
hvapt	66.80	kJ/mol	344.00	NIST Webbook
hvapt	68.90	kJ/mol	328.00	NIST Webbook
hvapt	68.60	kJ/mol	329.00	NIST Webbook
hvapt	69.00	kJ/mol	324.00	NIST Webbook
hvapt	47.61	kJ/mol	526.10	KDB
hvapt	57.80	kJ/mol	448.50	NIST Webbook
hvapt	67.90	kJ/mol	334.00	NIST Webbook
hvapt	57.10	kJ/mol	480.50	NIST Webbook
pvap	4.65	kPa	423.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	6.84	kPa	433.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K

pvap	0.14	kPa	353.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.45	kPa	373.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	3.09	kPa	413.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	2.00	kPa	403.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	3.09	kPa	413.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K

pvap	4.64	kPa	423.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	6.81	kPa	433.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	9.78	kPa	443.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	13.75	kPa	453.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	50.70	kPa	498.07	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems

pvap	50.50	kPa	497.96	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	48.13	kPa	496.08	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	46.96	kPa	495.18	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	43.80	kPa	492.53	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	42.42	kPa	491.29	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems

pvap	40.04	kPa	489.26	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	40.00	kPa	489.17	Low-Pressure VLE Measurements and Thermodynamic Modeling, with PSRK and NRTL, of Binary 1-Alcohol + n-Alkane Systems
pvap	0.44	kPa	373.15	Isothermal Vapor Liquid Equilibria of n-Tetradecane + Ethyl Hexanoate, Ethyl Decanoate, and Ethyl Tetradecanoate
pvap	0.75	kPa	383.15	Isothermal Vapor Liquid Equilibria of n-Tetradecane + Ethyl Hexanoate, Ethyl Decanoate, and Ethyl Tetradecanoate
pvap	1.25	kPa	393.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	1.95	kPa	403.15	Isothermal Vapor Liquid Equilibria of n-Tetradecane + Ethyl Hexanoate, Ethyl Decanoate, and Ethyl Tetradecanoate

pvap	3.02	kPa	413.15	Isothermal Vapor Liquid Equilibria of n-Tetradecane + Ethyl Hexanoate, Ethyl Decanoate, and Ethyl Tetradecanoate
pvap	4.54	kPa	423.15	Isothermal Vapor Liquid Equilibria of n-Tetradecane + Ethyl Hexanoate, Ethyl Decanoate, and Ethyl Tetradecanoate
pvap	6.68	kPa	433.15	Isothermal Vapor Liquid Equilibria of n-Tetradecane + Ethyl Hexanoate, Ethyl Decanoate, and Ethyl Tetradecanoate
pvap	9.63	kPa	443.15	Isothermal Vapor Liquid Equilibria of n-Tetradecane + Ethyl Hexanoate, Ethyl Decanoate, and Ethyl Tetradecanoate
pvap	13.60	kPa	453.15	Isothermal Vapor Liquid Equilibria of n-Tetradecane + Ethyl Hexanoate, Ethyl Decanoate, and Ethyl Tetradecanoate
pvap	4.27e-04	kPa	283.15	Gas Saturation Vapor Pressure Measurements of Mononitrotoluene Isomers from (283.15 to 313.15) K
pvap	1.21e-03	kPa	293.15	Gas Saturation Vapor Pressure Measurements of Mononitrotoluene Isomers from (283.15 to 313.15) K
pvap	3.22e-03	kPa	303.15	Gas Saturation Vapor Pressure Measurements of Mononitrotoluene Isomers from (283.15 to 313.15) K

pvap	8.10e-03	kPa	313.15	Gas Saturation Vapor Pressure Measurements of Mononitrotoluene Isomers from (283.15 to 313.15) K
pvap	0.76	kPa	383.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.45	kPa	373.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.25	kPa	363.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.14	kPa	353.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K

pvap	13.46	kPa	452.49	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	1.23	kPa	393.15	Isothermal Vapor Liquid Equilibria of n-Tetradecane + Ethyl Hexanoate, Ethyl Decanoate, and Ethyl Tetradecanoate
pvap	9.46	kPa	442.49	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	6.66	kPa	432.39	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	4.54	kPa	422.55	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K

pvap	1.95	kPa	402.74	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	1.19	kPa	392.00	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	1.19	kPa	391.95	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.72	kPa	382.07	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.72	kPa	381.93	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K

pvap	0.42	kPa	371.91	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.23	kPa	361.89	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.23	kPa	361.80	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.12	kPa	351.75	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K

pvap	3.03	kPa	412.69	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	0.76	kPa	383.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
pvap	1.25	kPa	393.15	Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate, or Methyl Hexadecanoate between 353.15 and 453.15 K
rfl	1.42910		293.10	Liquid liquid equilibria for n-alkanes (C12, C14, C17) + propylbenzene +NMP mixtures at temperatures between 298 and 328K

rfi	1.42360	308.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Tri-n-butylamine + Triethylamine, + Tetrahydrofuran, + Tetradecane, + Tetrachloroethylene, + Pyridine, or + Trichloroethylene at (298.15, 303.15, and 308.15) K
rfi	1.42600	303.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Tri-n-butylamine + Triethylamine, + Tetrahydrofuran, + Tetradecane, + Tetrachloroethylene, + Pyridine, or + Trichloroethylene at (298.15, 303.15, and 308.15) K
rfi	1.42820	298.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Tri-n-butylamine + Triethylamine, + Tetrahydrofuran, + Tetradecane, + Tetrachloroethylene, + Pyridine, or + Trichloroethylene at (298.15, 303.15, and 308.15) K
rfi	1.42730	298.15	Measurement and Prediction of Excess Properties of Binary Mixtures Methyl Decanoate + an Even-Numbered n-Alkane (C6-C16) at 298.15 K

rfi	1.42690		298.15	Liquid-Liquid Equilibria for Ternary Mixtures of gamma-Valerolactone + n-Tetradecane + (Butanoic Acid or Hexanoic Acid or Methyl Myristate) at 298.15 K
rfi	1.42890		293.10	Evaluation of [bmim][PF6] as an ionic solvent for the extraction of propylbenzene from aliphatic compounds
rfi	1.42910		293.10	Extraction of pentylbenzene from high molar mass alkanes (C14 and C17) by N-methyl-2-pyrrolidone
rhoI	763.00	kg/m3	293.00	KDB
rhoI	759.27	kg/m3	298.15	Liquid liquid equilibria for acetophenone + n-alkane mixtures and characterization of acetophenone systems using DISQUAC
rhoI	759.27	kg/m3	298.15	Thermodynamics of aromatic polar compound (alkanone, alkanal or alkanoate) + hydrocarbon mixtures
rhoI	763.09	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	759.27	kg/m3	298.15	Thermodynamics of Mixtures Containing a Very Strongly Polar Compound. 10. Liquid Liquid Equilibria for N,N-Dimethylacetamide + Selected Alkanes

rhoI	759.27	kg/m3	298.15	Thermodynamics of Mixtures Containing Aromatic Alcohols. 1. Liquid-Liquid Equilibria for (Phenylmethanol + Alkane) Systems
rhoI	759.27	kg/m3	298.15	Thermodynamics of Mixtures Containing Ethers. Part III. Liquid-Liquid Equilibria for 2,5,8,11-Tetraoxadodecane or 2,5,8,11,14-Pentaoxapentadecane + Selected N-Alkanes
rhoI	759.36	kg/m3	298.15	Excess Enthalpies of Binary Mixtures of 1-Hexene with Some n-Alkanes at 298.15 K
rhoI	759.27	kg/m3	298.15	Liquid-Liquid Equilibria for 2-Phenylethan-1-ol + Alkane Systems
rhoI	760.20	kg/m3	298.15	Excess molar enthalpies of binary mixtures containing 2-decanone or dipentyl ether with long-chain n-alkanes at T = 298.15 K
rhoI	727.10	kg/m3	344.15	High-pressure densities and interfacial tensions of binary systems containing carbon dioxide + n-alkanes: (n-Dodecane, n-tridecane, n-tetradecane)
rhoI	759.57	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	752.51	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	748.98	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	759.32	kg/m3	298.15	Thermodynamics of Mixtures Containing Amines. XV. Liquid Liquid Equilibria for Benzylamine + CH ₃ (CH ₂) _n CH ₃ (n = 8, 9, 10, 12, 14)
rhoI	760.20	kg/m3	298.15	Excess Molar Enthalpies of Binary Systems of 2-Octanone or 3-Octanone with Dodecane, Tetradecane, or Hexadecane at 298.15 K
rhoI	760.20	kg/m3	298.15	Excess Molar Enthalpies of Binary Systems of n-Valeric Anhydride or n-Hexanoic Anhydride with n-Dodecane, n-Tetradecane, or n-Hexadecane at 298.15 K
rhoI	759.27	kg/m3	298.15	Liquid-liquid equilibria for benzaldehyde + n-alkane mixtures and characterization of benzaldehyde + hydrocarbon systems in terms of DISQUAC

rhoI	759.19	kg/m3	298.15	Thermodynamics of mixtures containing amines. XI. Liquid + liquid equilibria and molar excess enthalpies at 298.15 K for N-methylaniline + hydrocarbon systems. Characterization in terms of DISQUAC and ERAS models
rhoI	759.27	kg/m3	298.15	Liquid Liquid Equilibria for Systems Containing 4-Phenylbutan-2-one or Benzyl Ethanoate and Selected Alkanes
rhoI	759.38	kg/m3	298.15	Solubility behavior of .gamma.-valerolactone + n-tetradecane or diesel mixtures at different temperatures
rhoI	756.03	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
sfust	161.52	J/mol×K	279.03	NIST Webbook
srf	0.02	N/m	313.15	Interfacial tensions of binary mixtures of ethanol with octane, decane, dodecane, and tetradecane
srf	0.03	N/m	293.20	KDB

srf	0.03	N/m	294.60	Density, Viscosity, Speed of Sound, Bulk Modulus, Surface Tension, and Flash Point of Binary Mixtures of Butylbenzene + Linear Alkanes (n-Decane, n-Dodecane, n-Tetradecane, n-Hexadecane, or n-Heptadecane) at 0.1 MPa
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Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	395.10	K	1.30	NIST Webbook
tfp	279.20	K	100.00	Liquid solid equilibria under high pressure of tetradecane + pentadecane and tetradecane + hexadecane binary systems
tfp	284.20	K	20000.00	Liquid solid equilibria under high pressure of tetradecane + pentadecane and tetradecane + hexadecane binary systems
tfp	289.10	K	40000.00	Liquid solid equilibria under high pressure of tetradecane + pentadecane and tetradecane + hexadecane binary systems
tfp	293.80	K	60000.00	Liquid solid equilibria under high pressure of tetradecane + pentadecane and tetradecane + hexadecane binary systems

tfp	297.90	K	80000.00	Liquid solid equilibria under high pressure of tetradecane + pentadecane and tetradecane + hexadecane binary systems
tfp	301.70	K	100000.00	Liquid solid equilibria under high pressure of tetradecane + pentadecane and tetradecane + hexadecane binary systems

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.50005e+01
Coeff. B	-4.49932e+03
Coeff. C	-8.96310e+01
Temperature range (K), min.	395.44
Temperature range (K), max.	554.00

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	1.87822e+02
Coeff. B	-1.58065e+04
Coeff. C	-2.49854e+01
Coeff. D	1.21628e-05
Temperature range (K), min.	279.01
Temperature range (K), max.	692.40

Datasets

Molar heat capacity at constant pressure, J/K/mol

Temperature, K - Liquid	Pressure, kPa - Liquid	Molar heat capacity at constant pressure, J/K/mol - Liquid
323.15	120.00	449.55
328.15	120.00	452.72
333.15	120.00	456.09
338.15	120.00	459.47
343.15	120.00	463.04
348.15	120.00	466.61
353.15	120.00	470.38
358.15	120.00	474.15
363.15	120.00	477.72
368.15	120.00	481.49
373.15	120.00	485.26
378.15	120.00	489.03
383.15	120.00	492.80
388.15	120.00	496.76
393.15	120.00	500.14
398.15	120.00	504.50
403.15	120.00	508.27
408.15	120.00	512.44
413.15	120.00	515.81
418.15	120.00	519.58
423.15	120.00	523.35
428.15	120.00	527.12
433.15	120.00	530.89
438.15	120.00	535.25
443.15	120.00	539.81
448.15	120.00	543.58
453.15	120.00	547.95
458.15	120.00	554.10
463.15	120.00	559.65
323.15	10120.00	447.76
328.15	10120.00	451.13
333.15	10120.00	454.51
338.15	10120.00	457.88
343.15	10120.00	461.25
348.15	10120.00	464.82
353.15	10120.00	468.20
358.15	10120.00	471.97
363.15	10120.00	475.54

368.15	10120.00	478.91
373.15	10120.00	483.07
378.15	10120.00	486.45
383.15	10120.00	489.82
388.15	10120.00	493.19
393.15	10120.00	497.16
398.15	10120.00	500.73
403.15	10120.00	503.71
408.15	10120.00	508.47
413.15	10120.00	511.64
418.15	10120.00	515.41
423.15	10120.00	518.78
428.15	10120.00	522.16
433.15	10120.00	525.93
438.15	10120.00	529.30
443.15	10120.00	533.47
448.15	10120.00	537.63
453.15	10120.00	541.60
458.15	10120.00	545.77
463.15	10120.00	550.33
468.15	10120.00	553.90
473.15	10120.00	558.07
478.15	10120.00	562.83
483.15	10120.00	566.79

Reference

<https://www.doi.org/10.1016/j.jct.2017.03.034>

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
313.20	690.00	0.0016530
313.20	5000.00	0.0017380
313.20	10000.00	0.0018310
313.20	20000.00	0.0020250
313.20	30000.00	0.0022410
313.20	40000.00	0.0024830
313.20	50000.00	0.0027670
313.20	60000.00	0.0030930
333.20	690.00	0.0012180
333.20	5000.00	0.0012830
333.20	10000.00	0.0013450

333.20	20000.00	0.0014730
333.20	30000.00	0.0016070
333.20	40000.00	0.0017400
333.20	50000.00	0.0018860
333.20	60000.00	0.0020430
353.20	690.00	0.0008960
353.20	5000.00	0.0009570
353.20	10000.00	0.0010170
353.20	20000.00	0.0011280
353.20	30000.00	0.0012290
353.20	40000.00	0.0013250
353.20	50000.00	0.0014230
353.20	60000.00	0.0015180
373.20	690.00	0.0006600
373.20	5000.00	0.0007080
373.20	10000.00	0.0007570
373.20	20000.00	0.0008520
373.20	30000.00	0.0009430
373.20	40000.00	0.0010310
373.20	50000.00	0.0011170
373.20	60000.00	0.0012020
393.20	690.00	0.0005270
393.20	5000.00	0.0005680
393.20	10000.00	0.0006090
393.20	20000.00	0.0006870
393.20	30000.00	0.0007670
393.20	40000.00	0.0008390
393.20	50000.00	0.0009080
393.20	60000.00	0.0009760

Reference

<https://www.doi.org/10.1016/j.fluid.2007.08.010>

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
294.80	2050.00	760.0
294.80	3540.00	762.0
294.40	5030.00	764.0
294.80	6500.00	765.0
294.60	8000.00	766.0
294.60	9490.00	767.0

324.10	2070.00	742.0
324.00	3540.00	743.0
324.00	5050.00	744.0
324.00	6560.00	746.0
324.10	8070.00	747.0
324.10	9540.00	748.0
373.50	2100.00	708.0
373.50	3560.00	709.0
373.30	5060.00	711.0
373.30	6560.00	712.0
373.50	8030.00	713.0
373.50	9500.00	715.0
447.60	1990.00	655.0
447.60	3590.00	658.0
447.50	4920.00	660.0
447.50	6450.00	662.0
447.60	7960.00	665.0
447.60	9470.00	667.0

Reference

<https://www.doi.org/10.1016/j.fluid.2012.01.023>

Temperature, K	Pressure, kPa	Mass density, kg/m3
283.15	100.00	770.0
283.15	470.00	770.2
283.15	960.00	770.5
298.15	100.00	759.4
298.15	470.00	759.7
298.15	960.00	760.0
298.15	2460.00	761.0
298.15	2950.00	761.3
298.15	4930.00	762.6
298.15	7410.00	764.2
298.15	9890.00	765.8
298.15	14850.00	768.9
298.15	19810.00	771.9
298.15	24770.00	774.8
298.15	29730.00	777.6
298.15	34690.00	780.3
298.15	39650.00	782.9
298.15	44610.00	785.4
298.15	49570.00	787.9
298.15	54530.00	790.3
298.15	59490.00	792.6

298.15	64450.00	794.9
298.15	69410.00	797.1
338.15	100.00	731.4
338.15	470.00	731.7
338.15	960.00	732.1
338.15	2460.00	733.3
338.15	2950.00	733.7
338.15	4930.00	735.3
338.15	7410.00	737.3
338.15	9890.00	739.2
338.15	14850.00	743.0
338.15	19810.00	746.5
338.15	29730.00	753.2
338.15	34690.00	756.4
338.15	39650.00	759.4
338.15	44610.00	762.4
338.15	49570.00	765.2
338.15	59490.00	770.7
338.15	64450.00	773.3
338.15	69410.00	775.8
338.15	44610.00	762.3
338.15	49570.00	765.1
338.15	54530.00	767.9
338.15	59490.00	770.6
338.15	64450.00	773.2
338.15	69410.00	775.7
288.15	100.00	766.4
288.15	470.00	766.7
288.15	960.00	766.9
288.15	2460.00	767.9
288.15	2950.00	768.2
288.15	4930.00	769.5
288.15	7410.00	771.0
288.15	9890.00	772.5
308.15	100.00	752.3
308.15	470.00	752.6
308.15	2460.00	754.0
308.15	4930.00	755.7
308.15	9890.00	759.1
308.15	14850.00	762.3
308.15	19810.00	765.4
308.15	24770.00	768.4
308.15	29730.00	771.3
308.15	34690.00	774.1

308.15	39650.00	776.9
308.15	44610.00	779.5
308.15	49570.00	782.1
308.15	54530.00	784.5
308.15	59490.00	787.0
308.15	64450.00	789.3
308.15	69410.00	791.6
358.15	100.00	717.2
358.15	470.00	717.5
358.15	960.00	718.0
358.15	2460.00	719.4
358.15	2950.00	719.8
358.15	4930.00	721.6
358.15	7410.00	723.8
358.15	9890.00	725.9
358.15	14850.00	730.0
358.15	19810.00	733.9
358.15	24770.00	737.6
358.15	29730.00	741.2
358.15	34690.00	744.6
358.15	39650.00	747.8
358.15	44610.00	751.0
358.15	49570.00	754.0
358.15	54530.00	757.0
358.15	59490.00	759.8
358.15	64450.00	762.5
358.15	69410.00	765.2
293.15	100.00	762.9
293.15	470.00	763.2
293.15	960.00	763.5
293.15	2460.00	764.5
293.15	2950.00	764.8
293.15	4930.00	766.0
293.15	7410.00	767.6
293.15	9890.00	769.2
318.15	100.00	745.4
318.15	470.00	745.6
318.15	960.00	746.0
318.15	2460.00	747.1
318.15	2950.00	747.4
318.15	4930.00	748.9
318.15	7410.00	750.7
318.15	9890.00	752.4
318.15	14850.00	755.8

318.15	19810.00	759.1
318.15	24770.00	762.3
318.15	29730.00	765.2
318.15	34690.00	768.2
318.15	39650.00	771.0
318.15	44610.00	773.8
318.15	49570.00	776.4
318.15	54530.00	779.0
318.15	59490.00	781.5
318.15	64450.00	784.0
318.15	69410.00	786.3
373.15	100.00	706.5
373.15	470.00	706.8
373.15	960.00	707.3
373.15	2460.00	708.8
373.15	2950.00	709.3
373.15	4930.00	711.3
373.15	7410.00	713.6
373.15	9890.00	715.9
373.15	14850.00	720.3
373.15	19810.00	724.5
373.15	24770.00	728.5
373.15	29730.00	732.2
373.15	34690.00	735.8
373.15	39650.00	739.3
373.15	44610.00	742.6
373.15	49570.00	745.7
373.15	54530.00	748.8
373.15	59490.00	751.8
373.15	64450.00	754.6
373.15	69410.00	757.4

Reference

<https://www.doi.org/10.1016/j.fluid.2017.08.025>

Temperature, K	Pressure, kPa	Mass density, kg/m3
313.19	10020.00	756.25
313.23	12040.00	757.62
313.15	14050.00	759.03
313.13	16040.00	760.35
313.15	18060.00	761.65
313.17	19040.00	762.28
323.26	10000.00	749.44
323.18	12040.00	750.93

323.14	14050.00	752.38
323.18	16070.00	753.74
323.23	18060.00	755.07
323.25	19080.00	755.76
333.14	10050.00	742.64
333.16	12040.00	744.14
333.28	14060.00	745.66
333.16	16060.00	747.18
333.13	18050.00	748.61
333.13	19060.00	749.31
343.32	10040.00	736.0
343.32	12050.00	737.59
343.35	14070.00	739.16
343.31	16030.00	740.68
343.34	18020.00	742.16
343.31	19040.00	742.92
353.63	10020.00	729.05
353.58	12050.00	730.83
353.66	14040.00	732.42
353.48	16030.00	734.17
353.50	18010.00	735.7
353.51	19050.00	736.41

Reference

<https://www.doi.org/10.1021/acs.jced.5b00049>

Temperature, K	Pressure, kPa	Mass density, kg/m3
323.20	1050.00	737.0
323.20	2020.00	742.0
323.20	3160.00	743.0
323.20	4070.00	744.0
323.20	5060.00	745.0
323.30	5940.00	745.0
373.40	2080.00	707.0
373.40	4050.00	709.0
373.40	6010.00	710.0
373.40	7070.00	711.0
373.50	2970.00	708.0
373.50	5010.00	710.0
373.60	1010.00	706.0
422.50	1080.00	672.0
422.50	2140.00	673.0
422.60	3020.00	675.0
422.60	4020.00	676.0

422.60	5040.00	677.0
422.60	6050.00	679.0
422.70	7000.00	680.0
422.70	8000.00	681.0

Reference

<https://www.doi.org/10.1021/je200575c>

Pressure, kPa	Temperature, K	Mass density, kg/m3
100.00	283.15	770.4
100.00	288.15	767.0
100.00	293.15	763.5
100.00	298.15	759.8
100.00	303.15	756.3
100.00	308.15	752.7
100.00	313.15	749.2
100.00	318.15	745.7
100.00	323.15	742.2
10000.00	283.15	776.4
10000.00	288.15	772.9
10000.00	293.15	769.6
10000.00	298.15	766.2
10000.00	303.15	762.8
10000.00	308.15	759.4
10000.00	313.15	756.0
10000.00	318.15	752.7
10000.00	323.15	749.4
20000.00	288.15	778.8
20000.00	293.15	775.6
20000.00	298.15	772.3
20000.00	303.15	769.0
20000.00	308.15	765.8
20000.00	313.15	762.5
20000.00	318.15	759.3
20000.00	323.15	756.2
30000.00	288.15	784.2
30000.00	293.15	781.1
30000.00	298.15	778.0
30000.00	303.15	774.8
30000.00	308.15	771.6
30000.00	313.15	768.5
30000.00	318.15	765.5
30000.00	323.15	762.4
40000.00	288.15	789.4

40000.00	293.15	786.4
40000.00	298.15	783.3
40000.00	303.15	780.2
40000.00	308.15	777.2
40000.00	313.15	774.2
40000.00	318.15	771.2
40000.00	323.15	768.4
50000.00	293.15	791.4
50000.00	298.15	788.4
50000.00	303.15	785.4
50000.00	308.15	782.4
50000.00	313.15	779.5
50000.00	318.15	776.6
50000.00	323.15	773.8
60000.00	293.15	796.1
60000.00	298.15	793.2
60000.00	303.15	790.3
60000.00	308.15	787.3
60000.00	313.15	784.5
60000.00	318.15	781.7
60000.00	323.15	779.0

Reference

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

Sources

Extraction of pentylbenzene from high molar mass alkanes (C14 and C17) by the thermodynamic properties of mixtures containing ionic liquids Vapor Pressure and Enthalpy coefficients of binary systems and binary activity coefficients of mixtures of n-alkanes and cyclohexane and gas-liquid phase equilibria and gas-liquid phase equilibria of binary mixtures of n-alkanes and cyclohexane with cyclohexane and tetradecane: Viscosities of Binary Systems of Butylcyclohexane and n-alkanes (C14 and C17) at 293.15 K and 303.15 K: Vapor pressure measurement and thermodynamic modeling of binary systems (methanol + tetradecane) and four component mixtures Simulating the Binary Mixture (Cyclohexane + Hexadecane): Liquid Viscosities of Cyclohexane, Cyclohexane + Tetradecane, and Cyclohexane + Octadecane from 293.15 to 323.15 K: Thermodynamic properties of cyclopentane and cyclohexane up to 600 K: using a standard calorimetric cell: Isothermal Vapor Pressures of Three Binary Systems: n-Tetradecane + Methyl Dodecanoate, Methyl Tetradecanoate + Methyl Pentadecanoate, and Methyl Hexadecanoate between 293.15 and 323.15 K:

- <https://www.doi.org/10.1016/j.jct.2005.06.012>
- <https://www.doi.org/10.1016/j.fluid.2005.07.008>
- <https://www.doi.org/10.1021/je900598y>
- <https://www.doi.org/10.1016/j.fluid.2012.09.037>
- <https://www.doi.org/10.1016/j.jct.2011.04.005>
- <https://www.doi.org/10.1021/je400835u>
- <https://www.doi.org/10.1021/je900311v>
- <https://www.doi.org/10.1016/j.fluid.2012.01.023>
- <https://www.doi.org/10.1021/acs.jced.5b00331>
- <http://link.springer.com/article/10.1007/BF02311772>
- <https://www.doi.org/10.1021/je800882f>
- <https://www.doi.org/10.1016/j.jct.2018.05.023>
- https://en.wikipedia.org/wiki/Joback_method
- <https://www.doi.org/10.1021/acs.jced.7b00099>
- <https://www.doi.org/10.1016/j.fluid.2005.06.028>

Thermodynamics of aromatic polar compound (alkanone, alkanal or enal) with 1,4-dioxane as aprotic solvent for the extraction of n-alkylbenzenes from aliphatic compounds;
Thermodynamics of Mixtures Containing Ethers. Part III. Separation of propylbenzene and n-alkanes from their mixtures using a 1,4-dioxane-ethylbenzene/n-alkanes system; 1,4-dioxane-ethylbenzene system as a solvent for NMR spectra of mixtures of n-alkanes and propylbenzene; 1,4-dioxane-ethylbenzene system as a solvent for NMR spectra of mixtures of n-alkanes and propylbenzene; 1,4-dioxane-ethylbenzene system as a solvent for NMR spectra of mixtures of n-alkanes and propylbenzene;
Thermodynamic Solubility Prediction of Methoxybenzoic Acid or Methyl Myristate at High Capacity and Joule-Thomson Coefficient of selected n-alkanes at 0.1 and 0.1 MPa and Equilibrium of Alkane (C₁₀-C₁₄) + Hexylbenzene + Sulfolane: Measurement and Correlation of High Pressure Phase Equilibria for CO₂ + Alkane and CO₂ + Ether Systems: Containing 4-Phenylbutan-2-one or Benzyl Ethyl Ether and Fluid Phase Behavior and phenomena of the ternary system CO₂ + decane + decane mixtures containing 2-decanone or dipentyl ether with long chain n-alkanes; Sound, Surface Tension, and Fluid Phase Equilibria of the Ternary System Water + Triethylamine + Hexane and Water + Triethylamine + n-Heptane with Some n-Alkanes at 298.15 K; Liquid Equilibria for 2-Phenylethan-1-ol + Alkane Systems: Infinite dilution activity coefficients, specific retention volumes and solvent vapor liquid equilibrium for the hydrocarbon systems n-C₁₀H₂₂, n-C₁₂H₂₆, n-C₁₄H₃₀, n-C₁₆H₃₄, n-C₁₈H₃₈, n-C₂₀H₄₂, n-C₂₂H₄₆, n-C₂₄H₅₀, n-C₂₆H₅₄, n-C₂₈H₅₈, n-C₃₀H₆₂, n-C₃₂H₆₆, n-C₃₄H₇₀, n-C₃₆H₇₄, n-C₃₈H₇₈, n-C₄₀H₈₂, n-C₄₂H₈₆, n-C₄₄H₉₀, n-C₄₆H₉₄, n-C₄₈H₉₈, n-C₅₀H₁₀₂, n-C₅₂H₁₀₆, n-C₅₄H₁₁₀, n-C₅₆H₁₁₄, n-C₅₈H₁₁₈, n-C₆₀H₁₂₂, n-C₆₂H₁₂₆, n-C₆₄H₁₃₀, n-C₆₆H₁₃₄, n-C₆₈H₁₃₈, n-C₇₀H₁₄₂, n-C₇₂H₁₄₆, n-C₇₄H₁₅₀, n-C₇₆H₁₅₄, n-C₇₈H₁₅₈, n-C₈₀H₁₆₂, n-C₈₂H₁₆₆, n-C₈₄H₁₇₀, n-C₈₆H₁₇₄, n-C₈₈H₁₇₈, n-C₉₀H₁₈₂, n-C₉₂H₁₈₆, n-C₉₄H₁₉₀, n-C₉₆H₁₉₄, n-C₉₈H₁₉₈, n-C₁₀₀H₂₀₂, n-C₁₀₂H₂₀₆, n-C₁₀₄H₂₁₀, n-C₁₀₆H₂₁₄, n-C₁₀₈H₂₁₈, n-C₁₁₀H₂₂₂, n-C₁₁₂H₂₂₆, n-C₁₁₄H₂₃₀, n-C₁₁₆H₂₃₄, n-C₁₁₈H₂₃₈, n-C₁₂₀H₂₄₂, n-C₁₂₂H₂₄₆, n-C₁₂₄H₂₅₀, n-C₁₂₆H₂₅₄, n-C₁₂₈H₂₅₈, n-C₁₃₀H₂₆₂, n-C₁₃₂H₂₆₆, n-C₁₃₄H₂₇₀, n-C₁₃₆H₂₇₄, n-C₁₃₈H₂₇₈, n-C₁₄₀H₂₈₂, n-C₁₄₂H₂₈₆, n-C₁₄₄H₂₉₀, n-C₁₄₆H₂₉₄, n-C₁₄₈H₂₉₈, n-C₁₅₀H₃₀₂, n-C₁₅₂H₃₀₆, n-C₁₅₄H₃₁₀, n-C₁₅₆H₃₁₄, n-C₁₅₈H₃₁₈, n-C₁₆₀H₃₂₂, n-C₁₆₂H₃₂₆, n-C₁₆₄H₃₃₀, n-C₁₆₆H₃₃₄, n-C₁₆₈H₃₃₈, n-C₁₇₀H₃₄₂, n-C₁₇₂H₃₄₆, n-C₁₇₄H₃₅₀, n-C₁₇₆H₃₅₄, n-C₁₇₈H₃₅₈, n-C₁₈₀H₃₆₂, n-C₁₈₂H₃₆₆, n-C₁₈₄H₃₇₀, n-C₁₈₆H₃₇₄, n-C₁₈₈H₃₇₈, n-C₁₉₀H₃₈₂, n-C₁₉₂H₃₈₆, n-C₁₉₄H₃₉₀, n-C₁₉₆H₃₉₄, n-C₁₉₈H₃₉₈, n-C₂₀₀H₄₀₂, n-C₂₀₂H₄₀₆, n-C₂₀₄H₄₁₀, n-C₂₀₆H₄₁₄, n-C₂₀₈H₄₁₈, n-C₂₁₀H₄₂₂, n-C₂₁₂H₄₂₆, n-C₂₁₄H₄₃₀, n-C₂₁₆H₄₃₄, n-C₂₁₈H₄₃₈, n-C₂₂₀H₄₄₂, n-C₂₂₂H₄₄₆, n-C₂₂₄H₄₅₀, n-C₂₂₆H₄₅₄, n-C₂₂₈H₄₅₈, n-C₂₃₀H₄₆₂, n-C₂₃₂H₄₆₆, n-C₂₃₄H₄₇₀, n-C₂₃₆H₄₇₄, n-C₂₃₈H₄₇₈, n-C₂₄₀H₄₈₂, n-C₂₄₂H₄₈₆, n-C₂₄₄H₄₉₀, n-C₂₄₆H₄₉₄, n-C₂₄₈H₄₉₈, n-C₂₅₀H₅₀₂, n-C₂₅₂H₅₀₆, n-C₂₅₄H₅₁₀, n-C₂₅₆H₅₁₄, n-C₂₅₈H₅₁₈, n-C₂₆₀H₅₂₂, n-C₂₆₂H₅₂₆, n-C₂₆₄H₅₃₀, n-C₂₆₆H₅₃₄, n-C₂₆₈H₅₃₈, n-C₂₇₀H₅₄₂, n-C₂₇₂H₅₄₆, n-C₂₇₄H₅₅₀, n-C₂₇₆H₅₅₄, n-C₂₇₈H₅₅₈, n-C₂₈₀H₅₆₂, n-C₂₈₂H₅₆₆, n-C₂₈₄H₅₇₀, n-C₂₈₆H₅₇₄, n-C₂₈₈H₅₇₈, n-C₂₉₀H₅₈₂, n-C₂₉₂H₅₈₆, n-C₂₉₄H₅₉₀, n-C₂₉₆H₅₉₄, n-C₂₉₈H₅₉₈, n-C₃₀₀H₆₀₂, n-C₃₀₂H₆₀₆, n-C₃₀₄H₆₁₀, n-C₃₀₆H₆₁₄, n-C₃₀₈H₆₁₈, n-C₃₁₀H₆₂₂, n-C₃₁₂H₆₂₆, n-C₃₁₄H₆₃₀, n-C₃₁₆H₆₃₄, n-C₃₁₈H₆₃₈, n-C₃₂₀H₆₄₂, n-C₃₂₂H₆₄₆, n-C₃₂₄H₆₅₀, n-C₃₂₆H₆₅₄, n-C₃₂₈H₆₅₈, n-C₃₃₀H₆₆₂, n-C₃₃₂H₆₆₆, n-C₃₃₄H₆₇₀, n-C₃₃₆H₆₇₄, n-C₃₃₈H₆₇₈, n-C₃₄₀H₆₈₂, n-C₃₄₂H₆₈₆, n-C₃₄₄H₆₉₀, n-C₃₄₆H₆₉₄, n-C₃₄₈H₆₉₈, n-C₃₅₀H₇₀₂, n-C₃₅₂H₇₀₆, n-C₃₅₄H₇₁₀, n-C₃₅₆H₇₁₄, n-C₃₅₈H₇₁₈, n-C₃₆₀H₇₂₂, n-C₃₆₂H₇₂₆, n-C₃₆₄H₇₃₀, n-C₃₆₆H₇₃₄, n-C₃₆₈H₇₃₈, n-C₃₇₀H₇₄₂, n-C₃₇₂H₇₄₆, n-C₃₇₄H₇₅₀, n-C₃₇₆H₇₅₄

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100-10015-100107

Activity coefficients at infinite dilution of organic solutes in
Methylcyclohexane and Modeling of Liquid-Liquid
Saturated Properties (Solubility, Density, and Viscosity) of Ethane + n-Tetradecane and
n-Hexadecane Systems :
n-Tetradecane from 310 to 333 K and
Correlation of Activity Coefficients
Liquid-Liquid Equilibria and
Thermodynamic Modeling of
Solid-Liquid Systems (Phase Diagrams and
Isobaric Heat Capacity Measurements and
Density and Viscosity Modeling, with PSRK
and NRTL Thermodynamic Models for the
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equilibrium and liquid properties of
binary systems (n-alkane mixtures and
ether-alkane mixtures) and vapor pressure
Saturated Vapor Pressure of Alcohols. 1.
Liquid-Liquid Equilibria and Diffusion
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on liquid n-tetradecane at moderately
high pressures minimum miscible
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Determination and correlation of
liquid-liquid equilibria for nine binary
isothermal Vapor-Liquid Equilibria of
n-Tetradecane + Ethyl Hexanoate, Ethyl
benzoate and ethyl n-tetradecanoate:
benzaldehyde + n-alkane mixtures
Liquid-Liquid Equilibria of Benzaldehyde +
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systems (water + n-alkane) of
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Legend

af:	Acentric Factor
chg:	Standard gas 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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhoc:	Critical density
rhof:	Liquid Density
rinpol:	Non-polar retention indices
sfust:	Entropy of fusion at a given temperature
sg:	Molar entropy at standard conditions
sl:	Liquid phase molar entropy at standard conditions
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tfp:	Melting point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility

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