Methyl Isobutyl Ketone

Other names:	2-Methyl-4-pentanal
	2-Methyl-4-pentanone
	2-Methylpropyl methyl ketone
	2-Pentanone, 4-methyl-
	4-METHYL-2-PENTANONE
	4-Methyl-2-oxopentane
	4-Methyl-2-pentanon
	4-Methyl-pentan-2-on
	4-Methylpentan-2-one
	4-Metilpentan-2-one
	4-methyl-2-pentanone (MIBK; methyl isobutyl ketone)
	HEXONE
	Hexon
	Isobutyl methyl ketone
	Isobutyl-methylketon
	Isopropylacetone
	Ketone, isobutyl methyl
	METHYL-ISO-BUTYL KETONE
	MIBK
	MIK
	Methyl i-butyl ketone
	Methyl-2-pentanon,4-
	Methyl-isobutyl-cetone
	Methylisobutylketon
	Metilisobutilchetone
	Metyloizobutyloketon
	NSC 5712
	Rcra waste number U161
	Shell MIBK
	UN 1245
	ethyl iso-butyl ketone
	iso-C4H9COCH3
	isopropyl acetone
Inchi:	InChI=1S/C6H12O/c1-5(2)4-6(3)7/h5H,4H2,1-3H3
InchiKey:	NTIZESTWPVYFNL-UHFFFAOYSA-N
Formula:	C6H12O
SMILES:	CC(=O)CC(C)C
Mol. weight [g/mol]:	100.16
CAS:	108-10-1

Physical Properties

Property code	Value	Unit	Source
af	0.3850		KDB
aigt	729.82	K	KDB
chs	-3694.60	kJ/mol	NIST Webbook
dm	2.80	debye	KDB
dvisc	0.0005500	Pa×s	Viscosities, Densities, and Speeds of Sound of Binary Mixtures of o-Xylene, m-Xylene, p-Xylene, and Isopropylbenzene with 4-Methylpentan-2-one at 298.15 K
dvisc	0.0005600	Pa×s	Viscosity of the Tributyl Phosphate + Methyl Isobutyl Ketone + Phosphoric Acid System
fll	1.40	% in Air	KDB
flu	7.50	% in Air	KDB
fpc	297.04	K	KDB
fpo	295.93	K	KDB
gf	-131.72	kJ/mol	Joback Method
gyrad	3.7400		KDB
hf	-284.00	kJ/mol	KDB
hf	-291.20 ± 1.40	kJ/mol	NIST Webbook
hfs	-381.50	kJ/mol	NIST Webbook
hfus	9.37	kJ/mol	Joback Method
hvap	40.65	kJ/mol	NIST Webbook
hvap	41.00	kJ/mol	NIST Webbook
hvap	40.56	kJ/mol	NIST Webbook
hvap	42.50 ± 0.10	kJ/mol	NIST Webbook
ie	9.42	eV	NIST Webbook
ie	9.30 ± 0.01	eV	NIST Webbook
ie	9.30 ± 0.01	eV	NIST Webbook
ie	9.30 ± 0.03	eV	NIST Webbook
ie	9.30 ± 0.02	eV	NIST Webbook
ie	9.34 ± 0.01	eV	NIST Webbook
log10ws	-0.74		Estimated Solubility Method
log10ws	-0.96		Aqueous Solubility Prediction Method
logp	1.621		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB

nfpah	%!d(float64=2)		KDB
pc	3390.00 ± 20.00	kPa	NIST Webbook
pc	3270.00 ± 5.00	kPa	NIST Webbook
pc	3270.00	kPa	KDB
pc	3280.00 ± 96.50	kPa	NIST Webbook
rinpol	723.00		NIST Webbook
rinpol	729.50		NIST Webbook
rinpol	716.00		NIST Webbook
rinpol	733.30		NIST Webbook
rinpol	730.00		NIST Webbook
rinpol	738.00		NIST Webbook
rinpol	719.00		NIST Webbook
rinpol	742.00		NIST Webbook
rinpol	720.00		NIST Webbook
rinpol	709.00		NIST Webbook
rinpol	714.00		NIST Webbook
rinpol	728.00		NIST Webbook
rinpol	753.00		NIST Webbook
rinpol	721.00		NIST Webbook
rinpol	739.00		NIST Webbook
rinpol	739.00		NIST Webbook
rinpol	729.60		NIST Webbook
rinpol	741.00		NIST Webbook
rinpol	732.00		NIST Webbook
rinpol	735.00		NIST Webbook
rinpol	725.00		NIST Webbook
rinpol	730.00		NIST Webbook
rinpol	749.00		NIST Webbook
rinpol	759.00		NIST Webbook
rinpol	732.00		NIST Webbook
rinpol	728.00		NIST Webbook
rinpol	740.00		NIST Webbook
rinpol	698.00		NIST Webbook
rinpol	721.00		NIST Webbook
rinpol	730.00		NIST Webbook
rinpol	730.00		NIST Webbook
rinpol	722.00		NIST Webbook
rinpol	713.00		NIST Webbook
rinpol	733.00		NIST Webbook
rinpol	720.00		NIST Webbook
rinpol	725.00		NIST Webbook
rinpol	720.00		NIST Webbook
rinpol	715.83		NIST Webbook
rinpol	726.00		NIST Webbook

rinpol	721.00	NIST Webbook
rinpol	723.00	NIST Webbook
rinpol	726.00	NIST Webbook
rinpol	720.00	NIST Webbook
rinpol	720.00	NIST Webbook
rinpol	723.00	NIST Webbook
rinpol	724.00	NIST Webbook
rinpol	740.00	NIST Webbook
rinpol	734.70	NIST Webbook
rinpol	736.00	NIST Webbook
rinpol	728.00	NIST Webbook
rinpol	724.00	NIST Webbook
rinpol	706.00	NIST Webbook
rinpol	705.00	NIST Webbook
rinpol	703.00	NIST Webbook
rinpol	727.00	NIST Webbook
rinpol	727.00	NIST Webbook
rinpol	724.00	NIST Webbook
rinpol	726.00	NIST Webbook
rinpol	730.00	NIST Webbook
rinpol	722.00	NIST Webbook
rinpol	721.00	NIST Webbook
rinpol	720.00	NIST Webbook
rinpol	723.00	NIST Webbook
rinpol	721.70	NIST Webbook
rinpol	720.65	NIST Webbook
rinpol	720.12	NIST Webbook
rinpol	719.78	NIST Webbook
rinpol	722.94	NIST Webbook
rinpol	721.20	NIST Webbook
rinpol	720.00	NIST Webbook
rinpol	723.00	NIST Webbook
ripol	1039.50	NIST Webbook
ripol	994.00	NIST Webbook
ripol	1059.00	NIST Webbook
ripol	1010.00	NIST Webbook
ripol	1059.00	NIST Webbook
ripol	1021.20	NIST Webbook
ripol	1012.00	NIST Webbook
ripol	1009.00	NIST Webbook
ripol	1010.00	NIST Webbook
ripol	1010.00	NIST Webbook
ripol	1010.00	NIST Webbook
ripol	1008.00	NIST Webbook

ripol	999.00		NIST Webbook
ripol	1010.00		NIST Webbook
ripol	1028.00		NIST Webbook
ripol	1013.00		NIST Webbook
ripol	1006.00		NIST Webbook
ripol	1008.00		NIST Webbook
ripol	1013.00		NIST Webbook
ripol	1000.00		NIST Webbook
ripol	1020.00		NIST Webbook
ripol	1000.00		NIST Webbook
ripol	1000.00		NIST Webbook
ripol	1007.00		NIST Webbook
ripol	1000.00		NIST Webbook
ripol	1007.00		NIST Webbook
ripol	1008.00		NIST Webbook
ripol	1008.00		NIST Webbook
ripol	1017.00		NIST Webbook
ripol	1008.00		NIST Webbook
ripol	999.00		NIST Webbook
ripol	1017.00		NIST Webbook
ripol	1025.00		NIST Webbook
ripol	1002.00		NIST Webbook
ripol	1000.00		NIST Webbook
ripol	1012.00		NIST Webbook
ripol	1015.00		NIST Webbook
ripol	1034.00		NIST Webbook
ripol	1033.90		NIST Webbook
ripol	1029.00		NIST Webbook
ripol	1025.20		NIST Webbook
ripol	1019.00		NIST Webbook
ripol	1007.00		NIST Webbook
tb	389.60	K	KDB
tb	389.45	K	Measurements of Quaternary Liquid-Liquid Equilibrium for Water + Acetic Acid + Propionic Acid + Solvent (Butyronitrile, Benzyl Acetate, or Methyl Isobutyl Ketone) at 298.15 K
tb	389.15	K	Vapor-Liquid Equilibrium for Binary of 1-Butanol + N,N-Dimethylacetamide and Methyl Isobutyl Ketone + N,N-Dimethylacetamide at 101.3 kPa

tb	390.54	K	Excess enthalpies and (vapour + liquid) equilibrium data for the binary mixtures of dimethylsulphoxide with ketones
tb	390.50	K	Solubility and tie-line data for ternary aqueous mixtures of cyclopentanol with organic solvents at T = 298.2 K: Experiments and NRTL model
tb	392.30	K	Liquid-liquid equilibria of water + lactic acid + methyl isobutyl ketone
tb	387.35	K	Conductivity and Dissociation Constants of Quaternary Ammonium Perchlorates and Picrates in 4-Methyl-pentan-2-one
tc	571.00	K	KDB
tc	575.50 ± 0.50	K	NIST Webbook
tc	574.60 ± 0.50	K	NIST Webbook
tc	571.00	K	NIST Webbook
tc	571.00 ± 1.11	K	NIST Webbook
tf	189.00	K	KDB
tf	189.15	K	NIST Webbook
vc	0.371	m3/kmol	Joback Method
zra	0.26		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	182.26 ± 0.27	J/mol×K	399.44	NIST Webbook
cpg	187.90 ± 0.28	J/mol×K	415.75	NIST Webbook
cpg	180.50 ± 0.27	J/mol×K	394.30	NIST Webbook
cpg	184.31 ± 0.28	J/mol×K	405.15	NIST Webbook
cpg	186.06 ± 0.28	J/mol×K	410.70	NIST Webbook
cpl	211.90	J/mol×K	298.15	NIST Webbook
dvisc	0.0013273	Pa×s	258.24	Joback Method
dvisc	0.0061867	Pa×s	192.31	Joback Method
dvisc	0.0005326	Pa×s	324.18	Joback Method
dvisc	0.0002910	Pa×s	390.11	Joback Method
dvisc	0.0025603	Pa×s	225.28	Joback Method
dvisc	0.0007984	Pa×s	291.21	Joback Method
dvisc	0.0003828	Pa×s	357.14	Joback Method
hvapt	37.60	kJ/mol	347.00	NIST Webbook

hvapt	37.00	kJ/mol	369.00	NIST Webbook
hvapt	40.61	kJ/mol	388.90	NIST Webbook
hvapt	42.50	kJ/mol	340.50	NIST Webbook
hvapt	39.20	kJ/mol	362.50	NIST Webbook
hvapt	38.00 ± 0.10	kJ/mol	338.00	NIST Webbook
hvapt	39.00 ± 0.10	kJ/mol	323.00	NIST Webbook
hvapt	40.10 ± 0.10	kJ/mol	308.00	NIST Webbook
hvapt	38.70	kJ/mol	359.00	NIST Webbook
hvapt	34.49	kJ/mol	389.40	NIST Webbook
hvapt	37.40 ± 0.10	kJ/mol	348.00	NIST Webbook
hvapt	41.20	kJ/mol	342.00	NIST Webbook
pvap	45.19	kPa	363.15	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures
pvap	62.78	kPa	373.15	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures
pvap	85.44	kPa	383.15	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures
pvap	114.12	kPa	393.15	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures

pvap	101.30	kPa	389.15	Vapor-Liquid Equilibrium for Binary of 1-Butanol + N,N-Dimethylacetamide and Methyl Isobutyl Ketone + N,N-Dimethylacetamide at 101.3 kPa
pvap	19.35	kPa	340.18	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	19.78	kPa	340.66	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	21.92	kPa	343.42	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	30.01	kPa	351.55	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol

pvap	31.12	kPa	352.71	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	31.71	kPa	353.11	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	39.35	kPa	359.22	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	39.63	kPa	359.39	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	31.80	kPa	353.15	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures	

pvap	44.70	kPa	362.88	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	49.68	kPa	365.90	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	50.66	kPa	366.61	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	53.01	kPa	368.06	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	53.42	kPa	368.07	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol

pvap	53.26	kPa	368.14	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	53.24	kPa	368.15	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	54.29	kPa	368.70	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	59.43	kPa	371.34	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	

pvap	59.75	kPa	371.64	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	60.19	kPa	371.91	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	65.18	kPa	374.37	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	69.16	kPa	376.26	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	69.98	kPa	376.49	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol

pvap	74.83	kPa	378.80	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	79.56	kPa	380.65	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	80.16	kPa	381.06	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	84.16	kPa	382.66	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	

pvap	90.58	kPa	384.99	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	98.70	kPa	388.07	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	99.40	kPa	388.31	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	100.35	kPa	388.63	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	100.41	kPa	388.65	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol

pvap	101.85	kPa	389.06	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	102.78	kPa	389.49	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol	
pvap	21.82	kPa	343.15	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures	
pvap	14.56	kPa	333.15	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures	
pvap	9.42	kPa	323.15	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures	

pvap	5.88	kPa	313.15	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures
pvap	110.74	kPa	392.07	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures
pvap	82.62	kPa	382.04	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures
pvap	60.56	kPa	372.03	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures
pvap	43.51	kPa	362.04	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures

pvap	30.29	kPa	351.81	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures
pvap	13.85	kPa	331.98	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures
pvap	3.89	kPa	303.15	Density, viscosity, isothermal (vapour + liquid) equilibrium, excess molar volume, viscosity deviation, and their correlations for chloroform + methyl isobutyl ketone binary system
pvap	40.05	kPa	359.58	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol
pvap	20.72	kPa	341.81	Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures

rfi	1.39355	298.15	Isobaric vapour liquid equilibria for the binary systems 4-methyl-2-pentanone + 1-butanol and + 2-butanol at 20 and 101.3 kPa
rfi	1.39327	298.15	Ternary and Binary LLE Measurements for Solvent (4-Methyl-2-pentanone and 2-Methyl-2-butanol) + Furfural + Water between 298 and 401 K
rfi	1.39586	293.15	Vapor Liquid Equilibrium for Methyl Isobutyl Ketone (MIBK) + (1-Propanol or 2-Propanol) Binary Mixtures
rfi	1.39420	298.15	Isobaric Vapor-Liquid Equilibria for Binary and Ternary Mixtures with Cyclohexane, Cyclohexene, and Methyl Isobutyl Ketone at 100 kPa
rfi	1.39360	298.15	Liquid-Liquid and Vapor-Liquid-Liquid Equilibrium of the 4-Methyl-2-pentanone + 2-Butanol + Water System
rfi	1.39350	298.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K
rfi	1.39360	298.15	Bubble temperature measurements on seven binary mixtures formed by ethylbenzene at 94.7 kPa

rhol	781.11	kg/m3	313.20	Liquid-liquid equilibrium data and thermophysical properties for ternary systems composed of water, acetic acid and different solvents
rhol	800.80	kg/m3	293.15	Evaluation of thermodynamic properties of fluid mixtures by PC-SAFT model
rhol	796.10	kg/m3	298.15	Evaluation of thermodynamic properties of fluid mixtures by PC-SAFT model
rhol	791.60	kg/m3	303.15	Evaluation of thermodynamic properties of fluid mixtures by PC-SAFT model
rhol	796.19	kg/m3	298.15	Excess molar enthalpies of methyl isobutyl ketone (MIBK) with alkan-1-ols (C1-C6) and their correlations at 298.15 K
rhol	782.30	kg/m3	313.15	Evaluation of thermodynamic properties of fluid mixtures by PC-SAFT model
rhol	777.60	kg/m3	318.15	Evaluation of thermodynamic properties of fluid mixtures by PC-SAFT model
rhol	773.00	kg/m3	323.15	Evaluation of thermodynamic properties of fluid mixtures by PC-SAFT model
rhol	796.03	kg/m3	298.15	Evaluation of Diethyl Carbonate and Methyl Isobutyl Ketone as Entrainers for the Separation of 1-Hexene and n-Hexane

rhol	805.12	kg/m3	288.15	Thermal and Volumetric Properties of Some C5 and C6 Alkanones at Infinite Dilution in Water
rhol	795.98	kg/m3	298.15	Thermal and Volumetric Properties of Some C5 and C6 Alkanones at Infinite Dilution in Water
rhol	786.75	kg/m3	308.15	Thermal and Volumetric Properties of Some C5 and C6 Alkanones at Infinite Dilution in Water
rhol	777.46	kg/m3	318.15	Thermal and Volumetric Properties of Some C5 and C6 Alkanones at Infinite Dilution in Water
rhol	800.59	kg/m3	298.15	Liquid-Liquid Equilibrium for Ternary Systems, Water + 5-Hydroxymethylfurfural + (1-Butanol, Isobutanol, Methyl Isobutyl Ketone), at 313.15, 323.15, and 333.15 K
rhol	798.09	kg/m3	298.15	Evaluation of the Performance of Four Solvents for the Liquid Liquid Extraction of Acrylic Acid from Water
rhol	799.00	kg/m3	298.15	Liquid Liquid Equilibria for the Ternary System Methyl Isobutyl Ketone + 1,2-Benzenediol + Water
rhol	796.33	kg/m3	303.15	Excess Molar Enthalpies and Vapor-Liquid Equilibrium for N-Methyl-2-pyrrolidone with Ketones

rhol	800.90	kg/m3	293.15	Effect of 1-ethyl-3-methylimidazolium tetrafluoroborate on the phase equilibria for systems containing 5-hydroxymethylfurfural, water, organic solvent in the absence and presence of sodium chloride
rhol	799.61	kg/m3	293.20	Liquid-liquid equilibrium data and thermophysical properties for ternary systems composed of water, acetic acid and different solvents
rhol	800.00	kg/m3	293.15	Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures
rhol	795.94	kg/m3	298.15	Liquid liquid equilibria of 4-methyl-2-pentanone + 1-propanol or 2-propanol + water ternary systems: Measurements and correlation at different temperatures
rhol	796.23	kg/m3	298.15	Liquid-liquid equilibria for the pseudo-ternary system {aqueous sulfuric acid solution + methyl ethyl ketone or methyl isopropyl ketone + phosphonium-based ionic liquids} at 298.15 K and atmospheric pressure

rhol	799.80	kg/m3	298.15	Liquid liquid equilibria for the quaternary system methyl isobutyl ketone water phenol hydroquinone
rhol	796.50	kg/m3	298.15	Isothermal vapour liquid equilibria in the binary and ternary systems composed of 2-propanol, diisopropyl ether and 4-methyl-2-pentanone
rhol	801.00	kg/m3	293.00	KDB
rhol	782.00	kg/m3	313.15	Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures
rhol	792.00	kg/m3	303.15	Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures
rhol	801.00	kg/m3	293.15	Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures
rhol	791.25	kg/m3	303.15	Excess molar volumes and ultrasonic studies of dimethylsulphoxide with ketones at T = 303.15 K
rhol	786.90	kg/m3	308.15	Evaluation of thermodynamic properties of fluid mixtures by PC-SAFT model

speedsl	1138.00	m/s	313.15	Densities and Speeds of Sound for Binary Liquid Mixtures of Thiolane-l,l-dioxide with Butanone, Pentan-2-one, Pentan-3-one, and 4-Methyl-pentan-2-one at T = (303.15 or 308.15 or 313.15) K
speedsl	1175.00	m/s	303.15	Densities and Speeds of Sound for Binary Liquid Mixtures of Thiolane-l,l-dioxide with Butanone, Pentan-2-one, Pentan-3-one, and 4-Methyl-pentan-2-one at T = (303.15 or 308.15 or 313.15) K
speedsl	1156.00	m/s	308.15	Densities and Speeds of Sound for Binary Liquid Mixtures of Thiolane-l,l-dioxide with Butanone, Pentan-2-one, Pentan-3-one, and 4-Methyl-pentan-2-one at T = (303.15 or 308.15 or 313.15) K

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.49712e+01
Coeff. B	-3.51652e+03
Coeff. C	-4.93340e+01
Temperature range (K), min.	288.82
Temperature range (K), max.	413.37

Information	Value

Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	1.58031e+02
Coeff. B	-1.05457e+04
Coeff. C	-2.16516e+01
Coeff. D	1.85635e-05
Temperature range (K), min.	295.15
Temperature range (K), max.	389.15

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
308.15	101.30	0.0004550

Reference *https://www.doi.org/10.1021/je8003723*

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C108101&Units=SI
Evaluation of Diethyl Carbonate and Methyl Isobutyl Ketone as Entrainers for the Separation of 1-Hexene and n-Hexane:	https://www.doi.org/10.1021/acs.jced.6b00905
Excess Molar Enthalpies and Vapor-Liquid Equilibrium for N-Methyl-2-pyrrolidone with Ketones:	https://www.doi.org/10.1021/je900262t
Liquid-Liquid Equilibrium for Ternary Systems, Water + 5-Hydroxymethylfurfural + (1-Butanol, Isobutanol, Methyl Isobutyl Ketone), at 313.15, 323.15, and 333.15 K:	https://www.doi.org/10.1021/acs.jced.8b00120
Experiments and COSMO-SAC Modeling of Methyl Isobutyl Ketone + Phenol + Water Mixtures:	https://www.doi.org/10.1021/acs.jced.9b00300
Liquid-Liquid Equilibrium Data and Correlation for the Quaternary Systems Water + Polyphenol (Hydroquinone, Catechol, and Resorcinol) + Methyl Isobutyl Ketone + Methylbenzene:	https://www.doi.org/10.1021/acs.jced.7b00598
Liquid-liquid equilibria of water + lactic acid + methyl isobutyl ketone:	https://www.doi.org/10.1016/j.fluid.2014.06.010
Determination and Thermodynamic Modeling of Solid Liquid Phase Equilibrium for Esomeprazole Sodium in Monosolvents and in the (Ethanol + Ethyl Acetate) Binary Solvent Mixtures:	https://www.doi.org/10.1021/acs.jced.6b01044
Measurements and correlations of liquid-liquid equilibria of 4-methyl-2-pentanone + ethanol + water and 4-methyl-2-pentanone + n-butanol + water ternary systems between 283.2 and 323.2 K:	https://www.doi.org/10.1016/j.fluid.2012.01.009
Liquid-Liquid Equilibria of Ionic Liquids-Water-Acetic Acid Mixtures:	https://www.doi.org/10.1021/acs.jced.6b00692
Solubility of 2,5-Furandicarboxylic Acid in Eight Pure Solvents and Two Binary Solvent Systems at 313.15-363.15 K:	https://www.doi.org/10.1021/acs.jced.7b00927
Liquid-liquid equilibria for the quaternary system methyl isobutyl ketone water phenol hydroquinone:	https://www.doi.org/10.1016/j.fluid.2007.05.026
Excess molar enthalpies of methyl isobutyl ketone (MIBK) with alkan-1-ols (C1-C6) and their correlations at 298.15 K:	https://www.doi.org/10.1016/j.tca.2004.09.012
Liquid-Liquid Equilibria for the Ternary System Methyl Isobutyl Ketone + 1,2-Benzenediol + Water:	https://www.doi.org/10.1021/je5005559
Solubility of Benzoic Acid and Aspirin in Pure Solvents Using Focused Beam Reflective Measurement:	https://www.doi.org/10.1021/acs.jced.5b00746
Solubility Determination and Correlation of Glibenclamide in 11 Monosolvents and (Acetone + Acetonitrile) Binary Solvents from 283.15 K to 323.15 K:	https://www.doi.org/10.1021/acs.jced.8b00717

Measurement and Thermodynamic Modeling of Ternary (Liquid + Liquid) Equilibrium for Extraction of N,N-Dimethylacetamide from Aqueous Solution with Different Solvents:	https://www.doi.org/10.1021/acs.jced.7b00194
Experimental Study on Reactive Extraction of Malonic Acid with Validation by Fourier Transform Infrared Spectroscopy:	https://www.doi.org/10.1021/acs.jced.8b00972
Isothermal vapour-liquid equilibria in the binary and ternary systems composed of 2,2,4-trimethylpentane, 2-methyl-1-propanol, and 4-methyl-2-pentanone:	https://www.doi.org/10.1016/j.fluid.2011.05.011
Evaluation of thermodynamic properties of fluid mixtures by PC-SAFT model:	https://www.doi.org/10.1016/j.tca.2014.07.022
Solubility of Penicillin Sulfoxide in Different Solvents:	https://www.doi.org/10.1021/je900326e
Thermal and Volumetric Properties of Some C5 and C6 Alkanones at Infinite Dilution in Water:	https://www.doi.org/10.1021/acs.jced.7b00035
Excess molar volumes and ultrasonic studies of dimethylsulphoxide with ketones at T = 303.15 K:	https://www.doi.org/10.1016/j.jct.2007.08.006
Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K:	https://www.doi.org/10.1016/j.jct.2009.01.006
Viscosity of the Tributyl Phosphate + Methyl Isobutyl Ketone + Phosphoric Acid System:	https://www.doi.org/10.1021/je700746a
Vapor-Liquid Equilibrium for Binary of 1-Butanol + N,N-Dimethylacetamide and Methyl Isobutyl Ketone + N,N-Dimethylacetamide at 101.3 kPa:	https://www.doi.org/10.1021/acs.jced.9b00535
Parametric Analysis of Mandelic Acid Separation from Aqueous Solutions by Using Secondary Amine Mixture (Amberlite LA-2) in Various Diluents:	https://www.doi.org/10.1021/acs.jced.9b00169
Phase equilibrium properties of binary mixtures containing 2,5-dimethylfuran and furfuryl alcohol or methyl isobutyl ketone at several temperatures:	https://www.doi.org/10.1016/j.jct.2013.10.039
Evaluation of the Performance of Four Solvents for the Liquid-Liquid Extraction of Acrylic Acid from Water:	https://www.doi.org/10.1021/je201130h
Densities and Speeds of Sound for Binary Liquid Mixtures of Thiolane-1,1-dioxide with Butanone, Pentan-2-one, Pentan-3-one, and 4-Methyl-pentan-2-one at T = (303.15 or 308.15) K:	https://www.doi.org/10.1021/je900056u
Isobaric Vapor-Liquid Equilibria for Binary and Ternary Mixtures with Cyclohexane, Cyclohexene, and Methyl Isobutyl Ketone at 100 kPa:	https://www.doi.org/10.1021/je100776x
Liquid-liquid equilibrium data and thermophysical properties for ternary systems composed of water, acetic acid and different solvents:	https://www.doi.org/10.1016/j.fluid.2018.10.021
Liquid-Liquid and Vapor-Liquid-Liquid Equilibrium of the 4-Methyl-2-pentanone + 2-Butanol + Water System:	https://www.doi.org/10.1021/je100940w
Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures:	https://www.doi.org/10.1016/j.jct.2017.06.008
Liquid-Liquid Equilibria for the Ternary System Water + Methyl Isobutyl Ketone + tert-Butanol at Several Temperatures:	https://www.doi.org/10.1021/je700554u
Thermodynamics of binary mixtures of N-methyl-2-pyrrolidinone and ketone. Experimental results and modelling of the solid-liquid equilibrium and vapour-liquid equilibrium. The Modified UNIFAC (Do) model characterization:	https://www.doi.org/10.1016/j.jct.2004.11.007
Effect of 1-ethyl-3-methylimidazolium tetrafluoroborate on the phase equilibria of systems containing 5-hydroxymethylfurfural, water, organic solvent in the absence and presence of sodium chloride:	https://www.doi.org/10.1016/j.jct.2019.01.001
Measurements of Quaternary Liquid-Liquid Equilibrium for Water + Acetic Acid + Propionic Acid + Solvent (Butyl Acetate, Benzyl Acetate, or Methyl Isobutyl Ketone) at 298.15 K:	https://www.doi.org/10.1021/je050527x
Ternary and Binary LLE Measurements for Solvent (4-Methyl-2-pentanone and 2-Methyl-2-butanol) + Furfural + Water between 298 and 401 K:	https://www.doi.org/10.1021/acs.jced.5b00738
Liquid-Liquid Equilibria for the Ternary System Methyl Isobutyl Ketone + m-Benzenediol + Water:	https://www.doi.org/10.1021/je5003048
Liquid-liquid equilibria for methyl isobutyl ketone + cresols + water at 333.15K, 343.15K and 353.15K: Experimental results and data correlation:	https://www.doi.org/10.1016/j.fluid.2016.07.023
Air-Water Partitioning of C5 and C6 Alkanones: Measurement, Critical Compilation, Correlation, and Recommended Data:	https://www.doi.org/10.1021/acs.jced.9b00726
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Biomass-Derived Platform Chemicals: Thermodynamic Studies on the Extraction of 5-Hydroxymethylfurfural from Ionic Liquids:	https://www.doi.org/10.1021/je300529j
Solubility and tie-line data for ternary aqueous mixtures of cyclopentanol with organic solvents at T = 298.2 K: Experiments and NRTL model:	https://www.doi.org/10.1016/j.fluid.2014.07.011
Viscosities, Densities, and Speeds of Sound of Binary Mixtures of o-Xylene, m-Xylene, p-Xylene, and Isopropylbenzene with 4-Methylpentan-2-one at 298.15 K:	https://www.doi.org/10.1021/je049899g
Salt effect on liquid-liquid equilibria of tetrahydrofuran/water/5-hydroxymethylfurfural systems:	https://www.doi.org/10.1016/j.fluid.2019.04.018
KDB Pure (Korean Thermophysical Properties Databank):	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1197
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
Salt influence on MIBK/water liquid-liquid equilibrium: Measuring and modelling with ePC-SAFT and COSMO-RS:	https://www.doi.org/10.1016/j.fluid.2015.11.018
Solubility Measurement and Correlation of Two Erlotinib Hydrochloride Polymorphs in Alcohols and Ketones from 273.15 to 323.15 K:	https://www.doi.org/10.1021/acs.jced.6b00796
Liquid-liquid equilibria of ternary and quaternary systems involving 5-hydroxymethylfurfural, water, organic solvents, and salts at 313.15 K and atmospheric pressure:	https://www.doi.org/10.1016/j.fluid.2018.07.034
Conductivity and Dissociation Constants of Quaternary Ammonium Perchlorates and Picrates in 4-Methyl-pentan-2-one:	https://www.doi.org/10.1021/je9008969
Vapor-Liquid Equilibrium for Methyl Isobutyl Ketone (MIBK) + (1-Propanol or 2-Propanol) Binary Mixtures:	https://www.doi.org/10.1021/acs.jced.7b00026
Liquid-Liquid Equilibria for the Ternary System Methyl Isobutyl Ketone + Water + Hydroquinone:	https://www.doi.org/10.1021/je060245c
Liquid-Liquid Equilibria for the System Water + 4-Methylpentan-2-one + Acetic Acid at Several Temperatures :	https://www.doi.org/10.1021/je3006166
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Density, viscosity, isothermal (vapour + liquid) equilibrium, excess molar volume, viscosity deviation, and their correlations for chloroform + methyl isobutyl ketone binary system:	https://www.doi.org/10.1016/j.jct.2006.07.004
Salting-out effect of NaCl and KCl on the ternary LLE data for the systems of (water + propionic acid + isopropyl methyl ketone) and of (water + propionic acid + isobutyl methyl ketone):	https://www.doi.org/10.1016/j.jct.2003.11.011

The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Isothermal vapor-liquid equilibrium and excess molar enthalpies of the binary mixtures furfural + methyl isobutyl ketone, + 2-butanol and + 2-methyl-2-butanol:	https://www.doi.org/10.1016/j.fluid.2014.03.033
Influence of Salt on the Solubility and Tie-Line Data for Water + Formic Acid + Methyl Isobutyl Ketone at T = 298.15 K:	https://www.doi.org/10.1021/acs.jced.6b00109
Liquid-liquid equilibria for the pseudo-ternary system {aqueous sulfuric acid solution + methyl ethyl ketone or methyl isopropyl ketone + phosphonium based ionic liquids} at 298.15 K and atmospheric pressure:	https://www.doi.org/10.1016/j.fluid.2013.07.054
Liquid-Liquid Equilibria of the Ternary System Water + Acrylic Acid + 4-Methyl-2-pentanone at 298.15 K:	https://www.doi.org/10.1021/je700439n
Comparison of Extractants of Oxalic Acid from Dilute Aqueous Solutions Using Dioctylamine and Trioctylphosphine Oxide:	https://www.doi.org/10.1021/acs.jced.8b01155
Liquid-Liquid Equilibria for the Ternary Systems Water + Cyclohexanol + Methyl Isobutyl Carbinol and Water + Cyclohexanol + Methyl Isobutyl Ketone at Different Temperatures:	https://www.doi.org/10.1021/acs.jced.7b00683
Solvent Optimization for Extraction Equilibrium of trans-Aconitic Acid:	https://www.doi.org/10.1021/acs.jced.9b00059
KDB:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1199
Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol:	https://www.doi.org/10.1021/je300678r
Extraction of Citric Acid and Maleic Acid from Their Aqueous Solutions Using a Mixture of Trioctylphosphine Oxide:	https://www.doi.org/10.1021/acs.jced.7b00562
Comparison of the Efficiencies of Amine Extractants on Lactic Acid with a Secondary Amine, Dioctylamine:	https://www.doi.org/10.1021/je900446d
Liquid-liquid equilibrium for ternary systems, methyl isobutyl ketone + (catechol, resorcinol and hydroquinone) + water at 333.15 K, 343.15 K and 353.15 K:	https://www.doi.org/10.1016/j.fluid.2016.11.005
Excess enthalpies and (vapour + liquid) equilibrium data for the binary mixtures of ethers with ketones:	https://www.doi.org/10.1016/j.jct.2007.04.004
Compact apparatus for rapid measurement of high-pressure phase equilibria of carbon dioxide expanded liquids:	https://www.doi.org/10.1016/j.fluid.2009.12.030
Liquid-Liquid Equilibrium for the Ternary Systems (Methyl Isobutyl Ketone + Quinoline or Isoquinoline + Water) at 298.15, 318.15, and 338.15 K:	https://www.doi.org/10.1021/acs.jced.8b00096
Liquid-liquid equilibria of 4-methyl-2-pentanone + 1-propanol or 2-propanol + water ternary systems: Measurements and correlation at different temperatures:	https://www.doi.org/10.1016/j.fluid.2013.10.034
Determination of Henry's Law Constants Using Internal Standards with Benchmark Values:	https://www.doi.org/10.1021/je3010535
Liquid-Liquid Equilibrium of Water + 2-Methoxyphenol + Methyl Isobutyl Ketone and Water + 1,2-Benzenediol + Methyl Isobutyl Ketone at 303.15 K and 328.15 K:	https://www.doi.org/10.1021/acs.jced.7b00887
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
KDB Vapor Pressure Data:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1197
Measurement of the solubility of the salt of 2- mercaptobenzothiazole with cyclohexylamine and tert-butylamine in various solvents at low temperatures:	https://www.doi.org/10.1016/j.fluid.2016.12.002
The solubility of maleic acid in various inorganic salts and organic solvents: Thermodynamics model and parameters:	https://www.doi.org/10.1016/j.fluid.2017.07.012
Isothermal vapor-liquid equilibria in the binary and ternary systems composed of 2-propanol, diisopropyl ether and 4-methyl-2-pentanone:	https://www.doi.org/10.1016/j.fluid.2005.05.024
Isobaric vapour-liquid equilibria for the binary systems 4-methyl-2-pentanone + 1-butanol and + 2-butanol at 20 and 101.3 kPa:	https://www.doi.org/10.1016/j.fluid.2008.11.012
Selection of entrainers for the separation of the binary azeotropic system methanol + dimethyl carbonate by extractive distillation:	https://www.doi.org/10.1016/j.fluid.2011.08.007
Thermodynamic Studies of Solubility for Naphthalene in 12 Solvents from 279 to 330 K:	https://www.doi.org/10.1021/acs.jced.9b00064
Volumetric and Transport Properties of Binary Liquid Mixtures of Aliphatic Ketones with Phenylacetonitrile at T = 303.15 K:	https://www.doi.org/10.1021/je8003723
Bubble temperature measurements on seven binary mixtures formed by ethylbenzene at 94.7 kPa:	https://www.doi.org/10.1016/j.jct.2004.11.015
Solubility of lansoprazole in different solvents:	https://www.doi.org/10.1016/j.fluid.2012.06.011
Equilibrium Study on the Extraction of Levulinic Acid from Aqueous Solution with Aliquat 336 Dissolved in Different Diluents: Solvent's Polarity Effect and Column Design:	https://www.doi.org/10.1021/acs.jced.6b00164
Activity coefficients at infinite dilution for different alcohols and ketones in [EMpy][ESO4]: Experimental data and modeling with PC-SAFT:	https://www.doi.org/10.1016/j.fluid.2015.09.003

Legend

af:	Acentric Factor
aigt:	Autoignition Temperature
chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity

dm:	Dipole Moment
dvisc:	Dynamic viscosity
fll:	Lower Flammability Limit
flu:	Upper Flammability Limit
fpc:	Flash Point (Closed Cup Method)
fpo:	Flash Point (Open Cup Method)
gf:	Standard Gibbs free energy of formation
gyrad:	Radius of Gyration
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
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
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume
zra:	Rackett Parameter