2-Butanone

Other names:	2-Butanal
	2-Oxobutane
	2-butanone (MEK)
	2-butanone (MEK; methyl ethyl ketone)
	3-Butanone
	Acetone, methyl-
	Aethylmethylketon
	Butan-2-one
	Butanone
	Butanone 2
	C2H5COCH3
	Ethyl methyl cetone
	Ethyl methyl ketone
	Ethylmethylketon
	Ketone, ethyl methyl
	Ketone, methyl ethyl
	MEK
	METHYL ACETONE
	Meetco
	Methyl ethyl ketone
	Metiletilchetone
	Metyloetyloketon
	Rcra waste number U159
	UN 1193
Inchi:	InChI=1S/C4H8O/c1-3-4(2)5/h3H2,1-2H3
InchiKey:	ZWEHNKRNPOVVGH-UHFFFAOYSA-N
Formula:	C4H8O
SMILES:	CCC(C)=O
Mol. weight [g/mol]:	72.11
CAS:	78-93-3

Physical Properties

Property code	Value	Unit	Source
af	0.3200		KDB
affp	827.30	kJ/mol	NIST Webbook
aigt	789.26	K	KDB

basg	795.50	kJ/mol	NIST Webbook
chl	-2436.30 ± 1.50	kJ/mol	NIST Webbook
chl	-2444.20	kJ/mol	NIST Webbook
chl	-2438.40	kJ/mol	NIST Webbook
dm	3.30	debye	KDB
dvisc	0.0003730	Pa×s	Excess Molar Volumes and Viscosity Deviations of Binary Liquid Mixtures of 1,3-Dioxolane and 1,4-Dioxane with Butyl Acetate, Butyric Acid, Butylamine, and 2-Butanone at 298.15 K
dvisc	0.0003760	Pa×s	Viscosities, Densities, and Speeds of Sound of Binary Mixtures of o-Xylene, m-Xylene, p-Xylene, and Isopropylbenzene with 2-Butanone at 298.15 K
dvisc	0.0004011	Pa×s	Densities and Viscosities of Binary Liquid Mixtures of Trichloroethylene and Tetrachloroethylene with Some Polar and Nonpolar Solvents
dvisc	0.0003880	Pa×s	A volumetric and viscosity study for the binary mixtures of 1-hexyl-3-methylimidazolium tetrafluoroborate with some molecular solvents
ea	9.99e-04	eV	NIST Webbook
fll	1.80	% in Air	KDB
flu	11.50	% in Air	KDB
fpc	267.59	K	KDB
fpo	266.48	K	KDB
gf	-146.20	kJ/mol	KDB
hf	-238.60 ± 0.84	kJ/mol	NIST Webbook
hf	-238.70 ± 0.96	kJ/mol	NIST Webbook
hf	-238.10	kJ/mol	NIST Webbook
hf	-238.50	kJ/mol	KDB
hfl	-279.00	kJ/mol	NIST Webbook
hfl	-273.30 ± 1.20	kJ/mol	NIST Webbook
hfus	7.71	kJ/mol	Joback Method
hvap	35.51 ± 0.08	kJ/mol	NIST Webbook
hvap	34.73	kJ/mol	NIST Webbook
hvap	34.92	kJ/mol	NIST Webbook
hvap	34.50 ± 0.10	kJ/mol	NIST Webbook
hvap	34.80 ± 0.10	kJ/mol	NIST Webbook
hvap	32.00 ± 0.01	kJ/mol	NIST Webbook
ie	9.50 ± 0.10	eV	NIST Webbook
ie	9.54 ± 0.03	eV	NIST Webbook

ie	9.55 ± 0.03	eV	NIST Webbook
ie	9.48 ± 0.02	eV	NIST Webbook
ie	9.51	eV	NIST Webbook
ie	9.49	eV	NIST Webbook
ie	9.54 ± 0.01	eV	NIST Webbook
ie	9.52	eV	NIST Webbook
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ie	9.70	eV	NIST Webbook
ie	9.52	eV	NIST Webbook
ie	9.52 ± 0.04	eV	NIST Webbook
ie	9.53 ± 0.01	eV	NIST Webbook
ie	9.56	eV	NIST Webbook
ie	9.54 ± 0.01	eV	NIST Webbook
ie	9.46	eV	NIST Webbook
log10ws	0.52		Aqueous Solubility Prediction Method
log10ws	0.52		Estimated Solubility Method
logp	0.985		Crippen Method
mcvol	68.790	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=1)		KDB
pc	4166.00 ± 15.00	kPa	NIST Webbook
pc	4166.00 ± 3.00	kPa	NIST Webbook
pc	4207.00	kPa	KDB
pc	4165.80 ± 20.68	kPa	NIST Webbook
pc	4390.00 ± 202.65	kPa	NIST Webbook
pc	4166.00 ± 3.00	kPa	NIST Webbook
pc	4150.00 ± 34.50	kPa	NIST Webbook
pc	3998.00 ± 202.65	kPa	NIST Webbook
pc	4207.00 ± 10.00	kPa	NIST Webbook
rhoc	269.68 ± 15.14	kg/m3	NIST Webbook
rhoc	251.65 ± 4.33	kg/m3	NIST Webbook
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ripol	914.00		NIST Webbook
sl	239.00	J/mol×K	NIST Webbook
sl	241.40	J/mol×K	NIST Webbook
sl	238.82	J/mol×K	NIST Webbook
tb	352.65 ± 0.50	K	NIST Webbook
tb	351.75 ± 1.00	K	NIST Webbook
tb	353.75 ± 1.00	K	NIST Webbook
tb	351.15 ± 4.00	K	NIST Webbook
tb	354.15 ± 2.00	K	NIST Webbook
tb	352.75 ± 1.00	K	NIST Webbook
tb	352.74	K	KDB
tb	352.85	K	Excess molar volumes of ternary mixtures of 1,3-dichlorobenzene and methyl ethyl ketone with 1-alkanols at 303.15K
tb	352.68	K	Measurements and correlation of vapour liquid equilibria of 2-butanone and hydrocarbons binary systems at two different pressures

tb	352.72	K	Isobaric vapor-liquid equilibrium for 2-butanone + ethanol + phosphate-based ionic liquids at 101.3 kPa
tb	352.69	K	Excess enthalpies and (vapour + liquid) equilibrium data for the binary mixtures of dimethylsulphoxide with ketones
tb	352.72	K	Isobaric Vapor-Liquid Equilibrium for 2-Butanone + Ethanol System Containing Different Ionic Liquids at 101.3 kPa
tb	352.78	K	Measurement of Isobaric Vapor - Liquid Equilibria of Dimethyl Carbonate with Acetone, 2-Butanone and 2-Pentanone at 101.3 kPa and Density and Speed of Sound at 298.15 K
tb	352.68	K	Liquid-Liquid and Vapor-Liquid-Liquid Equilibrium of the 2-Butanone + 2-Butanol + Water System
tb	352.71 ± 0.10	K	NIST Webbook
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tb	352.95 ± 1.00	K	NIST Webbook

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tb	351.40 ± 1.00	K	NIST Webbook
tb	350.65 ± 2.00	K	NIST Webbook
tb	352.80 ± 0.30	K	NIST Webbook
tb	352.40 ± 1.00	K	NIST Webbook
tc	535.77 ± 0.30	K	NIST Webbook
tc	536.78	K	KDB
tc	536.80	K	NIST Webbook
tc	535.77 ± 0.20	K	NIST Webbook
tc	535.77 ± 0.20	K	NIST Webbook
tc	535.77 ± 0.20	K	NIST Webbook
tc	533.00 ± 3.00	K	NIST Webbook
tc	533.70 ± 3.00	K	NIST Webbook
tc	535.70 ± 0.39	K	NIST Webbook
tc	536.78 ± 0.20	K	NIST Webbook
tf	186.50	K	Aqueous Solubility Prediction Method
tf	186.55 ± 0.30	K	NIST Webbook
tf	186.00 ± 2.00	K	NIST Webbook
tf	186.25 ± 0.30	K	NIST Webbook
tf	186.46 ± 0.01	K	NIST Webbook
tf	186.42 ± 0.02	K	NIST Webbook
tf	186.85	K	NIST Webbook
tf	186.48	K	KDB
tf	186.80 ± 0.20	K	NIST Webbook
tt	186.50 ± 0.01	K	NIST Webbook
tt	186.10 ± 0.10	K	NIST Webbook
tt	186.48 ± 0.03	K	NIST Webbook
tt	186.40 ± 0.06	K	NIST Webbook
tt	186.47 ± 0.04	K	NIST Webbook
vc	0.267	m3/kmol	KDB
zc	0.2516810		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	113.43 ± 0.23	J/mol×K	347.15	NIST Webbook
cpg	115.65 ± 0.17	J/mol×K	358.79	NIST Webbook
cpg	118.70 ± 0.18	J/mol×K	371.90	NIST Webbook
cpg	119.03 ± 0.24	J/mol×K	372.15	NIST Webbook
cpg	121.75 ± 0.18	J/mol×K	385.60	NIST Webbook
cpg	124.39 ± 0.25	J/mol×K	397.15	NIST Webbook
cpg	124.60 ± 0.19	J/mol×K	399.55	NIST Webbook
cpg	126.98 ± 0.19	J/mol×K	410.70	NIST Webbook
cpg	131.71 ± 0.26	J/mol×K	432.15	NIST Webbook
cpg	138.62 ± 0.28	J/mol×K	467.15	NIST Webbook
cpl	162.20	J/mol×K	303.15	NIST Webbook
cpl	159.00	J/mol×K	298.15	NIST Webbook
cpl	158.40	J/mol×K	298.15	NIST Webbook
cpl	158.40	J/mol×K	298.15	NIST Webbook
cpl	158.41	J/mol×K	298.15	NIST Webbook
cpl	158.40	J/mol×K	298.10	NIST Webbook
cpl	159.20	J/mol×K	298.15	NIST Webbook
cpl	158.70	J/mol×K	298.15	NIST Webbook
cpl	158.00	J/mol×K	293.00	NIST Webbook
cpl	158.91	J/mol×K	298.15	NIST Webbook
cpl	157.91	J/mol×K	298.15	NIST Webbook
cpl	160.70	J/mol×K	297.00	NIST Webbook
cpl	160.70	J/mol×K	297.00	NIST Webbook
dvisc	0.0003168	Pa×s	323.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K
dvisc	0.0003167	Pa×s	323.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K

dvisc	0.0003303	Pa×s	318.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0003461	Pa×s	313.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0004306	Pa×s	288.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0003793	Pa×s	303.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0003793	Pa×s	303.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0003962	Pa×s	298.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	

dvisc	0.0003962	Pa×s	298.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0004136	Pa×s	293.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0004306	Pa×s	288.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0003030	Pa×s	323.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone	
dvisc	0.0003160	Pa×s	318.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone	
dvisc	0.0003300	Pa×s	313.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone	
dvisc	0.0002545	Pa×s	313.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K	
dvisc	0.0003450	Pa×s	308.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone	

dvisc	0.0003620	Pa×s	303.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone	
dvisc	0.0003600	Pa×s	303.15	Dynamic Viscosities of the Binary Systems Cyclohexane and Cyclopentane with Acetone, Butanone, or 2-Pentanone at Three Temperatures T) (293.15, 298.15, and 303.15) K	
dvisc	0.0003520	Pa×s	308.15	Densities and viscosities of binary mixtures of ethylmethylketone and 2-alkanols; application of the ERAS model and cubic EOS	
dvisc	0.0003780	Pa×s	298.15	Dynamic Viscosities of the Binary Systems Cyclohexane and Cyclopentane with Acetone, Butanone, or 2-Pentanone at Three Temperatures T) (293.15, 298.15, and 303.15) K	
dvisc	0.0003440	Pa×s	308.15	Density and Viscosity of Ketones with Toluene at Different Temperatures and at Atmospheric Pressure	
dvisc	0.0003653	Pa×s	303.15	Density and Viscosity of Ketones with Toluene at Different Temperatures and at Atmospheric Pressure	

dvisc	0.0003856	Pa×s	298.15	Density and Viscosity of Ketones with Toluene at Different Temperatures and at Atmospheric Pressure	
dvisc	0.0002601	Pa×s	308.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K	
dvisc	0.0003680	Pa×s	303.15	Densities and viscosities of binary mixtures of ethylmethylketone and 2-alkanols; application of the ERAS model and cubic EOS	
dvisc	0.0002666	Pa×s	303.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K	
dvisc	0.0002828	Pa×s	298.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K	
dvisc	0.0003956	Pa×s	293.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K	

dvisc	0.0003980	Pa×s	293.15	Dynamic Viscosities of the Binary Systems Cyclohexane and Cyclopentane with Acetone, Butanone, or 2-Pentanone at Three Temperatures T) (293.15, 298.15, and 303.15) K	
dvisc	0.0003303	Pa×s	318.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0003461	Pa×s	313.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0003626	Pa×s	308.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K	
dvisc	0.0003980	Pa×s	293.15	Physical properties of the binary systems methylcyclopentane with ketones (acetone, butanone and 2-pentanone) at T = (293.15, 298.15, and 303.15) K. New UNIFAC-VISCO interaction parameters	

dvisc	0.0003780	Pa×s	298.15	Physical properties of the binary systems methylcyclopentane with ketones (acetone, butanone and 2-pentanone) at T = (293.15, 298.15, and 303.15) K. New UNIFAC-VISCO interaction parameters
dvisc	0.0003600	Pa×s	303.15	Physical properties of the binary systems methylcyclopentane with ketones (acetone, butanone and 2-pentanone) at T = (293.15, 298.15, and 303.15) K. New UNIFAC-VISCO interaction parameters
dvisc	0.0003856	Pa×s	298.15	Excess parameter studies on the binary mixtures of toluene with ketones at different temperatures
dvisc	0.0003653	Pa×s	303.15	Excess parameter studies on the binary mixtures of toluene with ketones at different temperatures
dvisc	0.0003440	Pa×s	308.15	Excess parameter studies on the binary mixtures of toluene with ketones at different temperatures
dvisc	0.0003810	Pa×s	298.15	Densities and viscosities of binary mixtures of ethylmethylketone and 2-alkanols; application of the ERAS model and cubic EOS

dvisc	0.0003626	Pa×s	308.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K
dvisc	0.0004136	Pa×s	293.15	Densities, Viscosities and Refractive Indices of the Ternary Mixture Dimethyladipate + 2-Butanone + 1-Butanol at T = (288.15 to 323.15) K
dvisc	0.0003390	Pa×s	313.15	Densities and viscosities of binary mixtures of ethylmethylketone and 2-alkanols; application of the ERAS model and cubic EOS
hfust	8.44	kJ/mol	186.48	NIST Webbook
hfust	8.38	kJ/mol	186.47	NIST Webbook
hfust	8.44	kJ/mol	186.50	NIST Webbook
hfust	8.44	kJ/mol	186.50	NIST Webbook
hfust	8.48	kJ/mol	186.10	NIST Webbook
hvapt	32.30 ± 0.10	kJ/mol	338.00	NIST Webbook
hvapt	30.00 ± 0.10	kJ/mol	370.00	NIST Webbook
hvapt	30.50 ± 0.10	kJ/mol	363.00	NIST Webbook
hvapt	31.30 ± 0.10	kJ/mol	352.00	NIST Webbook
hvapt	33.90	kJ/mol	342.00	NIST Webbook
hvapt	33.80	kJ/mol	315.00	NIST Webbook
hvapt	35.60	kJ/mol	310.00	NIST Webbook
hvapt	33.90	kJ/mol	339.00	NIST Webbook
hvapt	31.10	kJ/mol	505.00	NIST Webbook
hvapt	31.60	kJ/mol	438.00	NIST Webbook
hvapt	32.50	kJ/mol	378.00	NIST Webbook
hvapt	34.60	kJ/mol	318.00	NIST Webbook
hvapt	33.80 ± 0.10	kJ/mol	314.00	NIST Webbook
hvapt	31.21	kJ/mol	352.60	KDB
hvapt	31.30	kJ/mol	352.80	NIST Webbook

pvap	101.30	kPa	352.68	Measurements and correlation of vapour liquid equilibria of 2-butanone and hydrocarbons binary systems at two different pressures
pvap	30.00	kPa	319.95	Measurements and correlation of vapour liquid equilibria of 2-butanone and hydrocarbons binary systems at two different pressures
pvap	101.30	kPa	352.72	Isobaric vapor-liquid equilibrium for 2-butanone + ethanol + phosphate-based ionic liquids at 101.3 kPa
pvap	94.00	kPa	350.25	Vapor Liquid Equilibria Measurements for the Five Linear C6 Esters with n-Octane
pvap	101.30	kPa	352.72	Isobaric Vapor-Liquid Equilibrium for 2-Butanone + Ethanol System Containing Different Ionic Liquids at 101.3 kPa
pvap	15.74	kPa	303.15	Density, Viscosity, Vapor-Liquid Equilibrium, Excess Molar Volume, Viscosity Deviation, and Their Correlations for the Chloroform + 2-Butanone Binary System
pvap	20.00	kPa	309.65	Measurements and correlation of vapour liquid equilibria of 2-butanone and hydrocarbons binary systems at two different pressures

rfi	1.37879	293.15	Mixing properties of binary mixtures presenting azeotropes at several temperatures
rfi	1.36565	318.15	Experimental Determination and Modeling of Densities, Refractive Indices of the Binary Mixtures of Dimethylphthalate (or Dimethyladipate) + 1-Butanol, or + 2-Butanol, or + 2-Butanone at T = (288.15 to 323.15) K
rfi	1.36294	323.15	Experimental Determination and Modeling of Densities, Refractive Indices of the Binary Mixtures of Dimethylphthalate (or Dimethyladipate) + 1-Butanol, or + 2-Butanol, or + 2-Butanone at T = (288.15 to 323.15) K
rfi	1.37910	293.15	Isothermal Vapor-Liquid Equilibrium Measurements of Butan-2-one + 2-Methyl-propan-1-ol/Pentan-1-ol
rfi	1.37900	293.15	Solid-Liquid Equilibrium Measurements for Posaconazole and Voriconazole in Several Solvents between T = 278.2 and 323.2 K Using Differential Thermal Analysis/Thermal Gravimetric Analysis

rfi	1.37870	293.15	Solubility Data for Roflumilast and Maraviroc in Various Solvents between T = (278.2-323.2) K
rfi	1.37690	298.15	Bubble-Temperature Measurements on Some Binary Mixtures Formed by Tetrahydrofuran or Amyl Alcohol with Hydrocarbons, Chlorohydrocarbons, or Butanols at (94.6 or 95.8) kPa
rfi	1.37623	298.15	Densities and Viscosities for Binary and Ternary Mixtures of Ethanol, 2-Butanone, and 2,2,4-Trimethylpentane at T = (298.15, 308.15, and 318.15) K
rfi	1.37879	293.15	Thermodynamic Properties of Ionic Liquids in Organic Solvents from (293.15 to 303.15) K
rfi	1.37618	298.15	Thermodynamic Properties of Ionic Liquids in Organic Solvents from (293.15 to 303.15) K
rfi	1.37355	303.15	Mixing properties of binary mixtures presenting azeotropes at several temperatures
rfi	1.37618	298.15	Mixing properties of binary mixtures presenting azeotropes at several temperatures

rfi	1.37102	308.15	Experimental Determination and Modeling of Densities, Refractive Indices of the Binary Mixtures of Dimethylphthalate (or Dimethyladipate) + 1-Butanol, or + 2-Butanol, or + 2-Butanone at T = (288.15 to 323.15) K
rfi	1.37604	298.15	Properties of ionic liquid HMIMPF6 with carbonates, ketones and alkyl acetates
rfi	1.37614	298.15	Isobaric vapour liquid equilibria for binary systems of 2-butanone with ethanol, 1-propanol, and 2-propanol at 20 and 101.3 kPa
rfi	1.37623	298.15	Vapor liquid equilibria for binary and ternary mixtures of ethanol, 2-butanone, and 2,2,4-trimethylpentane at 101.3 kPa
rfi	1.37355	303.15	Thermodynamic Properties of Ionic Liquids in Organic Solvents from (293.15 to 303.15) K
rfi	1.37690	298.15	(Vapor + liquid) equilibrium of binary mixtures formed by N,N-dimethyl formamide with some compounds at 95.1 kPa
rfi	1.37880	293.15	Solubilities of Phosphorus-Containing Compounds in Selected Solvents

rfi	1.37880	293.15	Isothermal Vapor Liquid Equilibrium Data for the Butan-2-one + Methanol or Ethanol Systems Using a Static-Analytic Microcell
rfi	1.37618	298.15	Ternary Liquid-Liquid Equilibria Ethanol + 2-Butanone + 1-Butyl-3-methylimidazolium Hexafluorophosphate, 2-Propanol + 2-Butanone + 1-Butyl-3-methylimidazolium Hexafluorophosphate, and 2-Butanone + 2-Propanol + 1,3-Dimethylimidazolium Methyl Sulfate at 298.15 K
rfi	1.37930	298.15	Isobaric Vapor Liquid Equilibria for Binary Systems of Acetone + Isopropenyl Acetate, 2-Butanone + Isopropenyl Acetate, and Isopropenyl Acetate + Acetylacetone at 101.3 kPa
rfi	1.37610	298.15	Isobaric Vapor-Liquid Equilibria for Binary and Ternary Mixtures of Ethanol and 2-Propanol with 2-Butanone and Butyl Propionate at 101.3 kPa
rfi	1.37366	303.15	Experimental Determination and Modeling of Densities, Refractive Indices of the Binary Mixtures of Dimethylphthalate (or Dimethyladipate) + 1-Butanol, or + 2-Butanol, or + 2-Butanone at T = (288.15 to 323.15) K

rfi	1.37631	298.15	Experimental Determination and Modeling of Densities, Refractive Indices of the Binary Mixtures of Dimethylphthalate (or Dimethyladipate) + 1-Butanol, or + 2-Butanol, or + 2-Butanone at T = (288.15 to 323.15) K	
rfi	1.37892	293.15	Experimental Determination and Modeling of Densities, Refractive Indices of the Binary Mixtures of Dimethylphthalate (or Dimethyladipate) + 1-Butanol, or + 2-Butanol, or + 2-Butanone at T = (288.15 to 323.15) K	
rfi	1.38153	288.15	Experimental Determination and Modeling of Densities, Refractive Indices of the Binary Mixtures of Dimethylphthalate (or Dimethyladipate) + 1-Butanol, or + 2-Butanol, or + 2-Butanone at T = (288.15 to 323.15) K	
rfi	1.37700	298.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K	

rfi	1.37383	303.15	Density, viscosity, refractive index, excess molar enthalpy, viscosity, and refractive index deviations for the (1-butanol + 2-butanone) binary system at T = 303 K. A new adiabatic calorimeter for heat of mixing
rfi	1.37500	298.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Methyl Ethyl Ketone + Pentanol Isomers at Different Temperatures
rfi	1.37000	308.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Methyl Ethyl Ketone + Pentanol Isomers at Different Temperatures
rfi	1.36834	313.15	Experimental Determination and Modeling of Densities, Refractive Indices of the Binary Mixtures of Dimethylphthalate (or Dimethyladipate) + 1-Butanol, or + 2-Butanol, or + 2-Butanone at T = (288.15 to 323.15) K
rfi	1.36570	318.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Methyl Ethyl Ketone + Pentanol Isomers at Different Temperatures

rhol	800.30	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	794.63	kg/m3	303.15	Excess molar volumes of (1-chlorobutane +heptane + 2-butanone or 2-pentanone) at 288.15 , 303.15 and 313.15 K . Measurements and correlations.	
rhol	784.01	kg/m3	313.15	Excess molar volumes of (1-chlorobutane +heptane + 2-butanone or 2-pentanone) at 288.15 , 303.15 and 313.15 K . Measurements and correlations.	
rhol	810.26	kg/m3	288.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	
rhol	805.06	kg/m3	293.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	
rhol	794.57	kg/m3	303.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	

rhol	789.27	kg/m3	308.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rhol	783.95	kg/m3	313.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rhol	799.83	kg/m3	298.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rhol	799.70	kg/m3	298.15	Isobaric Vapor Liquid Equilibrium for the Binary Systems of sec-Butyl Acetate + Methyl Ethyl Ketone, 2-Methoxyethanol, or 1,2-Dimethoxyethane at 101.3 kPa
rhol	799.62	kg/m3	298.15	Excess Molar Volumes and Surface Tensions of Xylene with Acetone or 2-Butanone at 298.15 K
rhol	794.60	kg/m3	303.15	Viscometric Behavior of Binary Mixtures of Butan-2-one with Benzene at T = (303.15, 313.15, and 323.15) K

rhol	784.00	kg/m3	313.15	Viscometric Behavior of Binary Mixtures of Butan-2-one with Benzene at T = (303.15, 313.15, and 323.15) K	
rhol	773.30	kg/m3	323.15	Viscometric Behavior of Binary Mixtures of Butan-2-one with Benzene at T = (303.15, 313.15, and 323.15) K	
rhol	799.97	kg/m3	298.15	Thermodynamics of Ketone + Amine Mixtures. Part VIII. Molar Excess Enthalpies at 298.15 K for n-Alkanone + Aniline or + N-Methylaniline Systems	
rhol	804.97	kg/m3	293.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	799.74	kg/m3	298.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	794.47	kg/m3	303.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	

rhol	789.18	kg/m3	308.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	783.85	kg/m3	313.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	778.48	kg/m3	318.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	773.09	kg/m3	323.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	804.83	kg/m3	293.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	799.60	kg/m3	298.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	

rhol	794.33	kg/m3	303.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	789.04	kg/m3	308.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	783.72	kg/m3	313.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	778.36	kg/m3	318.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	772.97	kg/m3	323.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	804.90	kg/m3	293.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform

rhol	799.68	kg/m3	298.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	794.41	kg/m3	303.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	789.12	kg/m3	308.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	783.80	kg/m3	313.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	778.44	kg/m3	318.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform
rhol	773.04	kg/m3	323.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform

rhol	805.17	kg/m3	293.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	799.94	kg/m3	298.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	794.67	kg/m3	303.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	789.38	kg/m3	308.15	Speed of sound, density and related thermodynamic excess properties of binary mixtures of butan-2-one with C1-C4 nalkanols and chloroform	
rhol	794.60	kg/m3	303.15	Volumetric Behavior of the Binary Mixtures of Methyl Ethyl Ketone with n-Hexane, Cyclohexane, and Benzene at T) (303.15, 313.15, and 323.15) K	
rhol	784.00	kg/m3	313.15	Volumetric Behavior of the Binary Mixtures of Methyl Ethyl Ketone with n-Hexane, Cyclohexane, and Benzene at T) (303.15, 313.15, and 323.15) K	

rhol	773.30	kg/m3	323.15	Volumetric Behavior of the Binary Mixtures of Methyl Ethyl Ketone with n-Hexane, Cyclohexane, and Benzene at T) (303.15, 313.15, and 323.15) K
rhol	799.71	kg/m3	303.15	Excess Molar Enthalpies and Vapor-Liquid Equilibrium for N-Methyl-2-pyrrolidone with Ketones
rhol	799.69	kg/m3	303.15	Studies of viscosities of dilute solutions of alkylamine in non-electrolyte solvents. II. Haloalkanes and other polar solvents
rhol	794.55	kg/m3	303.15	Thermodynamics of amide + ketone mixtures. 1. Volumetric, speed of sound and refractive index data for N,N-dimethylformamide + 2-alkanone systems at several temperatures
rhol	799.78	kg/m3	298.15	Thermodynamics of amide + ketone mixtures. 1. Volumetric, speed of sound and refractive index data for N,N-dimethylformamide + 2-alkanone systems at several temperatures
rhol	805.06	kg/m3	293.15	Thermodynamics of amide + ketone mixtures. 1. Volumetric, speed of sound and refractive index data for N,N-dimethylformamide + 2-alkanone systems at several temperatures

rhol	799.60	kg/m3	298.15	Volumetric and optical properties for some (2-butanone + chloroalkane) binary mixtures at T = 298.15 K
rhol	799.97	kg/m3	298.15	Thermodynamics of (ketone + amine) mixtures. Part XI. Excess molar enthalpies at T = 298.15 K for the (1-propanol + N,N,N-triethylamine + 2-butanone) system
rhol	786.94	kg/m3	313.15	Volumetric properties of binary mixtures of N-ethylformamide with tetrahydrofuran, 2-butanone and ethylacetate from (293.15 to 313.15) K
rhol	792.45	kg/m3	308.15	Volumetric properties of binary mixtures of N-ethylformamide with tetrahydrofuran, 2-butanone and ethylacetate from (293.15 to 313.15) K
rhol	797.88	kg/m3	303.15	Volumetric properties of binary mixtures of N-ethylformamide with tetrahydrofuran, 2-butanone and ethylacetate from (293.15 to 313.15) K
rhol	803.24	kg/m3	298.15	Volumetric properties of binary mixtures of N-ethylformamide with tetrahydrofuran, 2-butanone and ethylacetate from (293.15 to 313.15) K

rhol	808.64	kg/m3	293.15	Volumetric properties of binary mixtures of N-ethylformamide with tetrahydrofuran, 2-butanone and ethylacetate from (293.15 to 313.15) K
rhol	794.50	kg/m3	303.15	Excess molar volumes and ultrasonic studies of dimethylsulphoxide with ketones at T = 303.15 K
rhol	799.75	kg/m3	298.15	Excess molar enthalpies and volumes of binary mixtures of nonafluorobutylmethylether with ketones at T = 298.15 K
rhol	799.80	kg/m3	293.15	(Vapour + liquid) equilibria for (2-ethoxypropene + acetone) and (2-ethoxypropene + butanone)
rhol	802.03	kg/m3	298.15	Quaternary isothermal vapor-liquid equilibrium of the model biofuel 2-butanone + n-heptane + tetrahydrofuran + cyclohexane using Raman spectroscopic characterization

rhol	800.87	kg/m3	298.15	Experimental measurements and modelling of volumetric properties, refractive index and viscosity of binary systems of ethyl lactate with methyl ethyl ketone, toluene and n-methyl-2-pirrolidone at 288.15 323.15 K and atmospheric pressure. New UNIFAC VISCO and ASOG VISCO interaction parameters
rhol	799.97	kg/m3	298.15	Thermodynamics of ketone + amine mixtures. Part X. Excess molarenthalpies at 298.15 K for N,N,N-triethylamine + 2-alkanone systems.Characterization of tertiary amine + 2-alkanone, and ofamino-ketone + n-alkane mixtures in terms of DISQUAC
rhol	799.97	kg/m3	298.15	Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpies at 298.15K for dipropylamine, or dibutylamine + 2-alkanone systems and modeling of linear or aromatic amine + 2-alkanone mixtures in terms of DISQUAC and ERAS
rhol	800.30	kg/m3	313.15	Effect of temperature on ultrasonic velocity and thermodynamic parameters of bisphenol-C-formaldehyde-acrylate resin solutions

rhol	800.10	kg/m3	308.15	Effect of temperature on ultrasonic velocity and thermodynamic parameters of bisphenol-C-formaldehyde-acrylate resin solutions	
rhol	802.50	kg/m3	303.15	Effect of temperature on ultrasonic velocity and thermodynamic parameters of bisphenol-C-formaldehyde-acrylate resin solutions	
rhol	805.00	kg/m3	293.00	KDB	
rhol	810.33	kg/m3	288.15	Excess molar volumes of (1-chlorobutane +heptane + 2-butanone or 2-pentanone) at 288.15 , 303.15 and 313.15 K . Measurements and correlations.	
sfust	45.25	J/mol×K	186.48	NIST Webbook	
sfust	44.98	J/mol×K	186.47	NIST Webbook	
sfust	45.59	J/mol×K	186.10	NIST Webbook	
speedsl	1192.00	m/s	298.15	Vapor liquid equilibria for systems of diethyl carbonate and ketones and determination of group interaction parameters for the UNIFAC and ASOG methods	
speedsl	1212.30	m/s	293.15	Thermodynamics of ketone + amine mixtures Part IV. Volumetric and speed of sound data at (293.15; 298.15 and 303.15 K) for 2-butanone +dipropylamine, +dibutylamine or +triethylamine systems	

speedsl	1170.80	m/s	303.15	Thermodynamics of ketone + amine mixtures Part IV. Volumetric and speed of sound data at (293.15; 298.15 and 303.15 K) for 2-butanone +dipropylamine, +dibutylamine or +triethylamine systems	
speedsl	1212.00	m/s	293.15	Thermodynamics of Ketone + Amine Mixtures. Part III. Volumetric and Speed of Sound Data at (293.15, 298.15, and 303.15) K for 2-Butanone + Aniline, + N-Methylaniline, or + Pyridine Systems	
speedsl	1190.80	m/s	298.15	Thermodynamics of Ketone + Amine Mixtures. Part III. Volumetric and Speed of Sound Data at (293.15, 298.15, and 303.15) K for 2-Butanone + Aniline, + N-Methylaniline, or + Pyridine Systems	
speedsl	1170.60	m/s	303.15	Thermodynamics of Ketone + Amine Mixtures. Part III. Volumetric and Speed of Sound Data at (293.15, 298.15, and 303.15) K for 2-Butanone + Aniline, + N-Methylaniline, or + Pyridine Systems	

speedsl	1178.00	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	1191.00	m/s	298.15	Thermodynamics of ketone + amine mixtures Part IV. Volumetric and speed of sound data at (293.15; 298.15 and 303.15 K) for 2-butanone +dipropylamine, +dibutylamine or +triethylamine systems
speedsl	1136.00	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	1158.00	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
srf	0.02	N/m	298.20	KDB
srf	0.02	N/m	298.15	Concentration Dependence of Surface Tension for Very Dilute Aqueous Solutions of Organic Non-Electrolytes

tcondl	0.14	W/m×K	344.54	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase	
tcondl	0.14	W/m×K	323.96	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase	
tcondl	0.14	W/m×K	334.71	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase	
tcondl	0.14	W/m×K	314.26	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase	
tcondl	0.13	W/m×K	354.33	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase	
tcondl	0.13	W/m×K	364.46	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase	
tcondl	0.13	W/m×K	374.56	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase	

tcondl	0.15	W/m×K	305.02	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase
tcondl	0.15	W/m×K	294.42	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase
tcondl	0.15	W/m×K	284.48	Thermal Conductivity of Some Oxygenated Fuels and Additives in the Saturated Liquid Phase

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.45436e+01
Coeff. B	-3.04648e+03
Coeff. C	-4.60570e+01
Temperature range (K), min.	259.76
Temperature range (K), max.	376.05

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	6.69787e+01
Coeff. B	-6.16017e+03
Coeff. C	-7.78365e+00
Coeff. D	6.13927e-06
Temperature range (K), min.	186.48
Temperature range (K), max.	535.50

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
308.15	101.30	0.0003160

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

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Legend

af:	Acentric Factor
affp:	Proton affinity
aigt:	Autoignition Temperature
basg:	Gas basicity
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
ea:	Electron affinity
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
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
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
rhoc:	Critical density
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
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
tcondl:	Liquid thermal conductivity
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility