Cyclohexanone

Other names:	ANON
	Anone
	Cicloesanone
	Cyclohexanon
	Cyclohexyl ketone
	Cykloheksanon
	HEXANON
	Hytrol O
	Ketohexamethylene
	NADONE
	NCI-C55005
	NSC 5711
	Pimelic ketone
	Pimelin ketone
	Rcra waste number U057
	Sextone
	UN 1915
Inchi:	InChI=1S/C6H10O/c7-6-4-2-1-3-5-6/h1-5H2
InchiKey:	JHIVVAPYMSGYDF-UHFFFAOYSA-N
Formula:	C6H10O
SMILES:	O=C1CCCCC1
Mol. weight [g/mol]:	98.14
CAS:	108-94-1

Physical Properties

Property code	Value	Unit	Source
af	0.4420		KDB
affp	841.00	kJ/mol	NIST Webbook
aigt	693.15	K	KDB
basg	811.20	kJ/mol	NIST Webbook
chl	-3536.00 ± 2.00	kJ/mol	NIST Webbook
chl	-3517.60 ± 1.70	kJ/mol	NIST Webbook
chl	-3499.00 ± 0.80	kJ/mol	NIST Webbook
chl	-3518.90 ± 1.00	kJ/mol	NIST Webbook
dm	3.10	debye	KDB
ea	0.00	eV	NIST Webbook
fll	1.10	% in Air	KDB

fpc	327.04	K	KDB
fpo	317.04	K	KDB
gf	-90.81	kJ/mol	KDB
gyrad	3.4100		KDB
hf	-230.30	kJ/mol	KDB
hf	-225.70	kJ/mol	NIST Webbook
hf	-231.10 ± 0.88	kJ/mol	NIST Webbook
hf	-226.30	kJ/mol	NIST Webbook
hf	-227.70 ± 1.90	kJ/mol	NIST Webbook
hfl	-254.00 ± 2.00	kJ/mol	NIST Webbook
hfl	-271.40	kJ/mol	NIST Webbook
hfl	-272.60 ± 1.80	kJ/mol	NIST Webbook
hfl	-276.10 ± 0.84	kJ/mol	NIST Webbook
hfus	1.57	kJ/mol	Joback Method
hvap	33.94	kJ/mol	Joback Method
ie	9.29	eV	NIST Webbook
ie	9.14 ± 0.01	eV	NIST Webbook
ie	9.28	eV	NIST Webbook
ie	9.18	eV	NIST Webbook
ie	9.16 ± 0.01	eV	NIST Webbook
ie	9.50 ± 0.20	eV	NIST Webbook
ie	9.14 ± 0.02	eV	NIST Webbook
ie	9.18	eV	NIST Webbook
ie	9.14 ± 0.03	eV	NIST Webbook
ie	9.16 ± 0.02	eV	NIST Webbook
log10ws	-0.60		Estimated Solubility Method
log10ws	-0.60		Aqueous Solubility Prediction Method
logp	1.520		Crippen Method
mcvol	86.110	ml/mol	McGowan Method
nfpaf	%!d(float64=2)		KDB
nfpah	%!d(float64=1)		KDB
pc	3850.35 ± 202.65	kPa	NIST Webbook
pc	4000.00 ± 50.00	kPa	NIST Webbook
pc	4600.00 ± 100.00	kPa	NIST Webbook
pc	4000.00	kPa	KDB
rinpol	883.00		NIST Webbook
rinpol	853.90		NIST Webbook
rinpol	854.10		NIST Webbook
rinpol	896.00		NIST Webbook
rinpol	869.00		NIST Webbook
rinpol	891.00		NIST Webbook
rinpol	895.00		NIST Webbook
rinpol	851.00		NIST Webbook

rinpol	854.10	NIST Webbook
rinpol	881.00	NIST Webbook
rinpol	883.00	NIST Webbook
rinpol	874.00	NIST Webbook
rinpol	877.00	NIST Webbook
rinpol	853.90	NIST Webbook
rinpol	861.00	NIST Webbook
rinpol	857.00	NIST Webbook
rinpol	895.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	851.00	NIST Webbook
rinpol	884.00	NIST Webbook
rinpol	886.00	NIST Webbook
rinpol	855.10	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	886.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	872.00	NIST Webbook
rinpol	874.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	895.00	NIST Webbook
rinpol	851.70	NIST Webbook
rinpol	896.80	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	881.00	NIST Webbook
rinpol	896.00	NIST Webbook
rinpol	881.00	NIST Webbook
rinpol	876.00	NIST Webbook
rinpol	866.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	874.00	NIST Webbook
rinpol	882.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	879.00	NIST Webbook
rinpol	862.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	139.80	NIST Webbook
rinpol	866.00	NIST Webbook
rinpol	860.00	NIST Webbook
rinpol	862.00	NIST Webbook

rinpol	862.00	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	896.00	NIST Webbook
rinpol	897.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	903.00	NIST Webbook
rinpol	854.00	NIST Webbook
rinpol	858.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	858.00	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	854.00	NIST Webbook
rinpol	858.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	895.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	898.00	NIST Webbook
rinpol	878.00	NIST Webbook
rinpol	862.00	NIST Webbook
rinpol	878.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	857.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	900.00	NIST Webbook
rinpol	855.00	NIST Webbook
rinpol	139.80	NIST Webbook
rinpol	865.00	NIST Webbook
ripol	1311.00	NIST Webbook
ripol	1296.00	NIST Webbook
ripol	1280.00	NIST Webbook
ripol	1291.00	NIST Webbook
ripol	1289.00	NIST Webbook
ripol	1285.00	NIST Webbook
ripol	1302.00	NIST Webbook
ripol	1273.00	NIST Webbook
ripol	1301.00	NIST Webbook
ripol	1281.00	NIST Webbook
ripol	1301.00	NIST Webbook
ripol	1275.00	NIST Webbook
ripol	1306.00	NIST Webbook
ripol	1289.00	NIST Webbook

ripol	1306.00		NIST Webbook
ripol	1306.00		NIST Webbook
ripol	1310.00		NIST Webbook
ripol	1287.00		NIST Webbook
ripol	1314.00		NIST Webbook
ripol	1311.00		NIST Webbook
ripol	1285.00		NIST Webbook
ripol	1273.00		NIST Webbook
ripol	1299.00		NIST Webbook
ripol	1285.00		NIST Webbook
ripol	1320.00		NIST Webbook
ripol	1281.00		NIST Webbook
ripol	1282.00		NIST Webbook
ripol	1281.00		NIST Webbook
ripol	1302.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1314.00		NIST Webbook
ripol	1281.00		NIST Webbook
ripol	1291.00		NIST Webbook
ripol	1282.00		NIST Webbook
ripol	1333.00		NIST Webbook
ripol	1296.00		NIST Webbook
ripol	1291.00		NIST Webbook
ripol	1291.00		NIST Webbook
ripol	1315.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1275.00		NIST Webbook
ripol	1282.00		NIST Webbook
ripol	1314.00		NIST Webbook
sg	335.53	J/mol×K	NIST Webbook
sl	229.03	J/mol×K	NIST Webbook
tb	428.60	K	Isobaric Vapor-Liquid Phase Equilibrium Measurements, Correlation, and Prediction for Separation of the Mixtures of Cyclohexanone and Alcohols
tb	428.57	K	Measurement and Correlation of Vapor-Liquid Equilibrium for Binary Systems of Dimethyl Carbonate with Butyl Butyrate, o-Xylene, and Cyclohexanone at 101.3 kPa

tb	428.69	K	(Liquid + liquid) equilibria of (water + propionic acid + cyclohexanone) at several temperatures
tb	428.58	K	KDB
tb	428.84	K	Excess enthalpies and (vapour + liquid) equilibrium data for the binary mixtures of dimethylsulphoxide with ketones
tc	653.00 ± 3.00	K	NIST Webbook
tc	664.30 ± 3.00	K	NIST Webbook
tc	653.00	K	KDB
tc	629.15 ± 1.50	K	NIST Webbook
tf	242.00	K	KDB
tt	245.21 ± 0.01	K	NIST Webbook
tt	242.40 ± 0.50	K	NIST Webbook
vc	0.312	m3/kmol	Joback Method
zra	0.25		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.18	J/mol×K	480.00	NIST Webbook
cpg	161.07	J/mol×K	400.00	NIST Webbook
cpg	168.98	J/mol×K	420.00	NIST Webbook
cpg	175.81	J/mol×K	440.00	NIST Webbook
cpg	183.65	J/mol×K	460.00	NIST Webbook
cpg	155.20	J/mol×K	385.00	NIST Webbook
cpl	177.20	J/mol×K	300.00	NIST Webbook
cpl	182.46	J/mol×K	308.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
cpl	180.38	J/mol×K	303.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones

cpl	176.17	J/mol×K	293.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones	
cpl	178.27	J/mol×K	298.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones	
cpl	200.40	J/mol×K	304.20	NIST Webbook	
cpl	177.80	J/mol×K	290.00	NIST Webbook	
dvisc	0.0017680	Pa×s	303.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K	
dvisc	0.0015842	Pa×s	313.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K	
dvisc	0.0023000	Pa×s	293.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory	

dvisc	0.0017338	Pa×s	308.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K
dvisc	0.0019100	Pa×s	303.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
dvisc	0.0017500	Pa×s	308.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
dvisc	0.0016000	Pa×s	313.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
dvisc	0.0014600	Pa×s	318.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
dvisc	0.0013400	Pa×s	323.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory

dvisc	0.0019630	Pa×s	298.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K
dvisc	0.0019045	Pa×s	303.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K
dvisc	0.0016020	Pa×s	308.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K
dvisc	0.0020212 ± 0.0000030	Pa×s	298.15	Thermophysical Properties of Binary Mixtures of Cyclohexane + Nitrobenzene, Cyclohexanone + Nitrobenzene, and Cyclohexane + Cyclohexanone at (298.15, 303.15, and 308.15) K

dvisc	0.0018057 ± 0.0000030	Pa×s	303.15	Thermophysical Properties of Binary Mixtures of Cyclohexane + Nitrobenzene, Cyclohexanone + Nitrobenzene, and Cyclohexane + Cyclohexanone at (298.15, 303.15, and 308.15) K	
dvisc	0.0015849 ± 0.0000030	Pa×s	308.15	Thermophysical Properties of Binary Mixtures of Cyclohexane + Nitrobenzene, Cyclohexanone + Nitrobenzene, and Cyclohexane + Cyclohexanone at (298.15, 303.15, and 308.15) K	
dvisc	0.0019740 ± 0.0000197	Pa×s	298.15	Excess Molar Volumes and Viscosities for Binary Mixtures of Cyclohexanone with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K	
dvisc	0.0016320 ± 0.0000163	Pa×s	308.15	Excess Molar Volumes and Viscosities for Binary Mixtures of Cyclohexanone with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K	

dvisc	0.0013730 ± 0.0000137	Pa×s	318.15	Excess Molar Volumes and Viscosities for Binary Mixtures of Cyclohexanone with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K
dvisc	0.0018160 ± 0.0000091	Pa×s	303.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K
dvisc	0.0016570 ± 0.0000083	Pa×s	308.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K
dvisc	0.0015420 ± 0.0000077	Pa×s	313.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K
dvisc	0.0020570 ± 0.0000020	Pa×s	298.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols
dvisc	0.0018470 ± 0.0000020	Pa×s	303.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols
dvisc	0.0016940 ± 0.0000020	Pa×s	308.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols

dvisc	0.0015460 ± 0.0000020	Pa×s	313.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols	
dvisc	0.0020190 ± 0.0000101	Pa×s	298.15	Density and Viscosity of Binary Mixtures of n-Butyl Acetate with Ketones at (298.15, 303.15, 308.15, and 313.15) K	
dvisc	0.0018170 ± 0.0000091	Pa×s	303.15	Density and Viscosity of Binary Mixtures of n-Butyl Acetate with Ketones at (298.15, 303.15, 308.15, and 313.15) K	
dvisc	0.0021016	Pa×s	298.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K	
dvisc	0.0014760 ± 0.0000074	Pa×s	313.15	Density and Viscosity of Binary Mixtures of n-Butyl Acetate with Ketones at (298.15, 303.15, 308.15, and 313.15) K	
dvisc	0.0020200 ± 0.0000030	Pa×s	298.15	Densities and Viscosities of Ternary Mixtures of Cyclohexane + Cyclohexanone + Some Alkyl Acetates at 298.15 K	
dvisc	0.0023318	Pa×s	293.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K	

dvisc	0.0025990	Pa×s	288.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K
dvisc	0.0016310 ± 0.0000082	Pa×s	308.15	Density and Viscosity of Binary Mixtures of n-Butyl Acetate with Ketones at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0020900	Pa×s	298.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
hfust	8.51	kJ/mol	221.00	NIST Webbook
hfust	1.25	kJ/mol	242.60	NIST Webbook
hfust	8.66	kJ/mol	220.80	NIST Webbook
hfust	1.33	kJ/mol	245.20	NIST Webbook
hfust	1.33	kJ/mol	245.20	NIST Webbook
hsubt	49.30	kJ/mol	254.00	NIST Webbook
hvapt	40.40	kJ/mol	410.50	NIST Webbook
hvapt	43.40 ± 0.10	kJ/mol	323.00	NIST Webbook
hvapt	44.00 ± 0.10	kJ/mol	313.00	NIST Webbook
hvapt	44.40 ± 0.10	kJ/mol	308.00	NIST Webbook
hvapt	44.00	kJ/mol	373.00	NIST Webbook
hvapt	43.10 ± 0.10	kJ/mol	328.00	NIST Webbook
hvapt	45.13	kJ/mol	428.80	NIST Webbook
hvapt	39.75	kJ/mol	428.20	KDB
hvapt	42.20 ± 0.10	kJ/mol	338.00	NIST Webbook
hvapt	41.80 ± 0.10	kJ/mol	343.00	NIST Webbook
hvapt	41.40 ± 0.10	kJ/mol	348.00	NIST Webbook
hvapt	40.30	kJ/mol	285.50	NIST Webbook
hvapt	41.50	kJ/mol	400.50	NIST Webbook
hvapt	43.10	kJ/mol	385.00	NIST Webbook
hvapt	42.20	kJ/mol	401.50	NIST Webbook

pvap	101.30	kPa	428.57	Measurement and Correlation of Vapor-Liquid Equilibrium for Binary Systems of Dimethyl Carbonate with Butyl Butyrate, o-Xylene, and Cyclohexanone at 101.3 kPa
pvap	95.80	kPa	426.45	Bubble temperature measurements on the binary mixtures formed by decane with a variety of compounds at 95.8 kPa
pvap	5.57	kPa	343.15	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
pvap	13.07	kPa	363.15	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
pvap	8.60	kPa	353.15	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K

pvap	18.90	kPa	373.15	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
pvap	0.64	kPa	298.15	(Vapour + liquid) equilibria and excess Gibbs free energies of (cyclohexanone + 1- chlorobutane and + 1,1,1-trichloroethane) binary mixtures at temperatures from (298.15 to 318.15) K
pvap	29.10	kPa	385.45	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
pvap	38.41	kPa	394.05	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
pvap	48.20	kPa	401.35	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K

pvap	70.59	kPa	414.75	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
pvap	81.35	kPa	419.80	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
pvap	91.55	kPa	424.05	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
pvap	101.10	kPa	427.80	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
pvap	95.30	kPa	426.30	Excess enthalpies and (vapour + liquid) equilibrium data for the binary mixtures of dimethylsulphoxide with ketones

pvap	1.92	kPa	318.15	(Vapour + liquid) equilibria and excess Gibbs free energies of (cyclohexanone + 1- chlorobutane and + 1,1,1-trichloroethane) binary mixtures at temperatures from (298.15 to 318.15) K
pvap	1.16	kPa	308.15	(Vapour + liquid) equilibria and excess Gibbs free energies of (cyclohexanone + 1- chlorobutane and + 1,1,1-trichloroethane) binary mixtures at temperatures from (298.15 to 318.15) K
pvap	101.30	kPa	428.60	Isobaric Vapor-Liquid Phase Equilibrium Measurements, Correlation, and Prediction for Separation of the Mixtures of Cyclohexanone and Alcohols
pvap	95.30 ± 0.13	kPa	426.25	Excess Molar Enthalpies and Vapor-Liquid Equilibrium for N-Methyl-2-pyrrolidone with Ketones
pvap	99.00	kPa	428.01	Vapor-Liquid Equilibria of Cyclohexanone + 2-Cyclohexen-1-one and Cyclohexanol + 2-Cyclohexen-1-one, Validated in a Packed Column Distillation.
pvap	9.79 ± 0.02	kPa	363.15	Vapour liquid equilibria, azeotropic data, excess enthalpies, activity coefficients at infinite dilution and solid liquid equilibria for binary alcohol ketone systems

pvap	1.67 ± 0.02	kPa	323.15	Vapour liquid equilibria, azeotropic data, excess enthalpies, activity coefficients at infinite dilution and solid liquid equilibria for binary alcohol ketone systems	
pvap	0.64 ± 0.02	kPa	298.15	Vapour pressure and excess Gibbs energy of binary 1,2-dichloroethane + cyclohexanone, chloroform + cyclopentanone and chloroform + cyclohexanone mixtures at temperatures from 298.15 to 318.15 K	
pvap	1.91 ± 0.02	kPa	318.15	Vapour pressure and excess Gibbs energy of binary 1,2-dichloroethane + cyclohexanone, chloroform + cyclopentanone and chloroform + cyclohexanone mixtures at temperatures from 298.15 to 318.15 K	
pvap	1.15 ± 0.02	kPa	308.15	Vapour pressure and excess Gibbs energy of binary 1,2-dichloroethane + cyclohexanone, chloroform + cyclopentanone and chloroform + cyclohexanone mixtures at temperatures from 298.15 to 318.15 K	
pvap	94.70	kPa	426.85	Activity coefficients in binary mixtures formed by cyclohexanone with a variety of compounds at 94.7 kPa	

pvap	94.70	kPa	426.35	Activity coefficients in binary mixtures formed by cyclohexanone with a variety of compounds at 94.7 kPa
pvap	57.43	kPa	407.35	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
rfi	1.44650 ± 0.00010		303.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K
rfi	1.45070		293.10	Volumetric properties of (cyclohexanone + a xylene) at temperature between (293.15 and 353.15) K
rfi	1.44400		308.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K

rfi	1.44860	298.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K
rfi	1.45100	298.15	Bubble temperature measurements on the binary mixtures formed by decane with a variety of compounds at 95.8 kPa
rfi	1.44820	298.15	Vapour pressure and excess Gibbs energy of binary 1,2-dichloroethane + cyclohexanone, chloroform + cyclopentanone and chloroform + cyclohexanone mixtures at temperatures from 298.15 to 318.15 K
rfi	1.45100	293.15	Activity coefficients in binary mixtures formed by cyclohexanone with a variety of compounds at 94.7 kPa
rfi	1.44980	298.15	Solubility of a-Carotene in Binary Solvents Formed by Some Hydrocarbons with 2,5,8-Trioxanonane, 2-Propanone, and Cyclohexanone

rfi	1.44610	303.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K
rfi	1.44850	298.15	Comparative Dielectric Study and Molecular Interactions of Binary Mixtures of (Cyclohexanone + 1-Alkanols) and (Cyclopentanone or Cyclohexanone + Cyclohexanol or Cyclohexane) at T = 298.15 K
rfi	1.44842	298.15	Isobaric Vapor-Liquid Phase Equilibrium Measurements, Correlation, and Prediction for Separation of the Mixtures of Cyclohexanone and Alcohols
rfi	1.44810	298.15	Excess molar enthalpies for binary mixtures of cyclopentanone, cyclohexanone, or cycloheptanone with n-nonane at T = 298.15 K and atmospheric pressure

rfi	1.44820	298.15	(Vapour + liquid) equilibria and excess Gibbs free energies of (cyclohexanone + 1- chlorobutane and + 1,1,1-trichloroethane) binary mixtures at temperatures from (298.15 to 318.15) K
rfi	1.45010	298.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K
rfi	1.44810	298.15	Isothermal (vapour + liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15, and 363.15) K
rfi	1.45100	293.15	(Liquid + liquid) equilibria of (water + propionic acid + cyclohexanone) at several temperatures
rfi	1.45070	293.15	Effect of temperature on the volumetric properties of (cyclohexanone + an aromatic hydrocarbon)
rfi	1.44400 ± 0.00010	308.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K

rfi	1.44200 ± 0.00010		313.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K
rfi	1.44837 ± 0.00001		298.15	Densities, Refractive Indices, Speeds of Sound, and Surface Tensions for Dilute Aqueous Solutions of 2-Methyl-1-propanol, Cyclopentanone, Cyclohexanone, Cyclohexanol, and Ethyl Acetoacetate at 298.15 K
rfi	1.45030		298.20	Tie-line data for the aqueous solutions of phenol with organic solvents at T = 298.2 K
rhol	924.20 ± 0.92	kg/m3	318.15	Excess Molar Volumes and Viscosities for Binary Mixtures of Cyclohexanone with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K
rhol	932.67 ± 0.01	kg/m3	308.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols
rhol	927.72 ± 0.01	kg/m3	313.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols

rhol	941.10 ± 0.94	kg/m3	298.15	Density and Viscosity of Binary Mixtures of n-Butyl Acetate with Ketones at (298.15, 303.15, 308.15, and 313.15) K
rhol	937.50 ± 0.94	kg/m3	303.15	Density and Viscosity of Binary Mixtures of n-Butyl Acetate with Ketones at (298.15, 303.15, 308.15, and 313.15) K
rhol	933.40 ± 0.93	kg/m3	308.15	Density and Viscosity of Binary Mixtures of n-Butyl Acetate with Ketones at (298.15, 303.15, 308.15, and 313.15) K
rhol	929.00 ± 0.93	kg/m3	313.15	Density and Viscosity of Binary Mixtures of n-Butyl Acetate with Ketones at (298.15, 303.15, 308.15, and 313.15) K
rhol	941.91 ± 0.01	kg/m3	298.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols
rhol	951.69 ± 0.20	kg/m3	288.15	Densities and Excess Molar Volumes of the Binary Mixtures of Cyclohexanone with Chloroalkanes at Temperatures between (288.15 and 318.15) K
rhol	942.76 ± 0.20	kg/m3	298.15	Densities and Excess Molar Volumes of the Binary Mixtures of Cyclohexanone with Chloroalkanes at Temperatures between (288.15 and 318.15) K

rhol	933.80 ± 0.20	kg/m3	308.15	Densities and Excess Molar Volumes of the Binary Mixtures of Cyclohexanone with Chloroalkanes at Temperatures between (288.15 and 318.15) K
rhol	924.82 ± 0.20	kg/m3	318.15	Densities and Excess Molar Volumes of the Binary Mixtures of Cyclohexanone with Chloroalkanes at Temperatures between (288.15 and 318.15) K
rhol	941.70	kg/m3	298.15	Volumetric properties of (cyclohexanone + a xylene) at temperature between (293.15 and 353.15) K
rhol	945.10	kg/m3	298.15	Bubble temperature measurements on the binary mixtures formed by decane with a variety of compounds at 95.8 kPa
rhol	951.00	kg/m3	288.00	KDB
rhol	942.04 ± 0.00	kg/m3	298.15	Densities, Refractive Indices, Speeds of Sound, and Surface Tensions for Dilute Aqueous Solutions of 2-Methyl-1-propanol, Cyclopentanone, Cyclohexanone, Cyclohexanol, and Ethyl Acetoacetate at 298.15 K

rhol	928.20	kg/m3	313.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K	
rhol	932.80	kg/m3	308.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K	
rhol	937.70	kg/m3	303.15	Densities, Viscosities, and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K	
rhol	947.60	kg/m3	293.15	Vapor-Liquid Equilibrium for Binary Systems of Cyclohexane + Cyclohexanone and + Cyclohexanol at Temperatures from (414.0 to 433.7) K	
rhol	933.40 ± 0.93	kg/m3	308.15	Excess Molar Volumes and Viscosities for Binary Mixtures of Cyclohexanone with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K	
rhol	941.60 ± 0.00	kg/m3	298.15	Densities and Viscosities of Ternary Mixtures of Cyclohexane + Cyclohexanone + Some Alkyl Acetates at 298.15 K	

rhol	942.00 ± 0.94	kg/m3	298.15	Excess Molar Volumes and Viscosities for Binary Mixtures of Cyclohexanone with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K
rhol	936.50 ± 0.10	kg/m3	308.15	Thermophysical Properties of Binary Mixtures of Cyclohexane + Nitrobenzene, Cyclohexanone + Nitrobenzene, and Cyclohexane + Cyclohexanone at (298.15, 303.15, and 308.15) K
rhol	937.40 ± 0.10	kg/m3	303.15	Thermophysical Properties of Binary Mixtures of Cyclohexane + Nitrobenzene, Cyclohexanone + Nitrobenzene, and Cyclohexane + Cyclohexanone at (298.15, 303.15, and 308.15) K
rhol	941.00 ± 0.10	kg/m3	298.15	Thermophysical Properties of Binary Mixtures of Cyclohexane + Nitrobenzene, Cyclohexanone + Nitrobenzene, and Cyclohexane + Cyclohexanone at (298.15, 303.15, and 308.15) K

rhol	932.30	kg/m3	308.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K	
rhol	937.30	kg/m3	303.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K	
rhol	942.50	kg/m3	298.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K	
rhol	943.00	kg/m3	298.15	Vapour pressure and excess Gibbs energy of binary 1,2-dichloroethane + cyclohexanone, chloroform + cyclopentanone and chloroform + cyclohexanone mixtures at temperatures from 298.15 to 318.15 K	

rhol	942.47	kg/m3	298.15	Comparative Dielectric Study and Molecular Interactions of Binary Mixtures of (Cyclohexanone + 1-Alkanols) and (Cyclopentanone or Cyclohexanone + Cyclohexanol or Cyclohexane) at T = 298.15 K
rhol	941.70	kg/m3	298.15	Effect of temperature on the volumetric properties of (cyclohexanone + an aromatic hydrocarbon)
rhol	937.24 ± 0.01	kg/m3	303.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols
rhol	924.40	kg/m3	318.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
rhol	928.80	kg/m3	313.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
rhol	933.50	kg/m3	308.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
rhol	938.20	kg/m3	303.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory

rhol	943.10	kg/m3	298.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
rhol	948.80	kg/m3	293.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
rhol	941.10	kg/m3	298.15	Isobaric Vapor-Liquid Phase Equilibrium Measurements, Correlation, and Prediction for Separation of the Mixtures of Cyclohexanone and Alcohols
rhol	933.19	kg/m3	308.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhol	938.07	kg/m3	303.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhol	942.92	kg/m3	298.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhol	947.38	kg/m3	293.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones

rhol	928.79	kg/m3	313.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	
rhol	933.28	kg/m3	308.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	
rhol	937.77	kg/m3	303.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	
rhol	946.71	kg/m3	293.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	
rhol	951.18	kg/m3	288.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	
rhol	942.20	kg/m3	298.15	Excess molar enthalpies for binary mixtures of cyclopentanone, cyclohexanone, or cycloheptanone with n-nonane at T = 298.15 K and atmospheric pressure	

rhol	943.04	kg/m3	298.20	Tie-line data for the aqueous solutions of phenol with organic solvents at T = 298.2 K	
rhol	931.10	kg/m3	313.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K	
rhol	935.70	kg/m3	308.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K	
rhol	940.30	kg/m3	303.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K	
rhol	945.20	kg/m3	298.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K	
rhol	949.50	kg/m3	293.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K	

rhol	953.70	kg/m3	288.15	Densities and viscosities of binary and ternary mixtures of cyclohexanone, 1,4-dioxane and isooctane from T = (288.15 to 313.15) K
rhol	943.00	kg/m3	298.15	(Vapour + liquid) equilibria and excess Gibbs free energies of (cyclohexanone + 1- chlorobutane and + 1,1,1-trichloroethane) binary mixtures at temperatures from (298.15 to 318.15) K
rhol	937.58	kg/m3	303.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K
rhol	937.55	kg/m3	303.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K
rhol	937.55	kg/m3	303.15	Excess molar volumes and ultrasonic studies of dimethylsulphoxide with ketones at T = 303.15 K
rhol	937.58	kg/m3	303.15	Excess enthalpies and (vapour + liquid) equilibrium data for the binary mixtures of dimethylsulphoxide with ketones
rhol	942.24	kg/m3	298.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure

rhol	947.30	kg/m3	293.15	(Liquid + liquid) equilibria of (water + propionic acid + cyclohexanone) at several temperatures
rhol	920.70	kg/m3	323.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
sfust	38.50	J/mol×K	221.00	NIST Webbook
sfust	5.20	J/mol×K	242.60	NIST Webbook
sfust	39.22	J/mol×K	220.80	NIST Webbook
sfust	5.42	J/mol×K	245.20	NIST Webbook
speedsl	1385.00	m/s	303.15	Excess molar volumes and ultrasonic studies of dimethylsulphoxide with ketones at T = 303.15 K
speedsl	1417.00	m/s	298.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K
speedsl	1847.70 ± 0.10	m/s	298.15	Thermophysical Properties of Binary Mixtures of Cyclohexane + Nitrobenzene, Cyclohexanone + Nitrobenzene, and Cyclohexane + Cyclohexanone at (298.15, 303.15, and 308.15) K

speedsl	1970.10 ± 0.10	m/s	303.15	Thermophysical Properties of Binary Mixtures of Cyclohexane + Nitrobenzene, Cyclohexanone + Nitrobenzene, and Cyclohexane + Cyclohexanone at (298.15, 303.15, and 308.15) K	
speedsl	2090.00 ± 0.10	m/s	308.15	Thermophysical Properties of Binary Mixtures of Cyclohexane + Nitrobenzene, Cyclohexanone + Nitrobenzene, and Cyclohexane + Cyclohexanone at (298.15, 303.15, and 308.15) K	
speedsl	1408.00 ± 0.10	m/s	298.15	Densities, Refractive Indices, Speeds of Sound, and Surface Tensions for Dilute Aqueous Solutions of 2-Methyl-1-propanol, Cyclopentanone, Cyclohexanone, Cyclohexanol, and Ethyl Acetoacetate at 298.15 K	
speedsl	1375.10	m/s	308.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones	
speedsl	1386.00	m/s	303.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K	
speedsl	1395.10	m/s	303.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones	

speedsl	1415.50	m/s	298.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
speedsl	1431.20	m/s	293.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
speedsl	1385.00	m/s	303.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K
volm	1.04e-04	m3/mol	293.15	Activity coefficients in binary mixtures formed by cyclohexanone with a variety of compounds at 94.7 kPa

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	320.20	K	2.00	NIST Webbook

Sources

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Molecular Method:	http://link.springer.com/article/10.1007/BF02311772
Excess Molar Volumes and Viscosities for Binary Mixtures of Cyclohexanone with Methacrylic Acid, Benzyl Methacrylate, and 2-Hydroxyethyl Methacrylate at (298.15, 308.15, and 318.15) K:	https://www.doi.org/10.1021/je0502389

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
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
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
nfpaf:	NFPA Fire Rating
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
sfust:	Entropy of fusion at a given temperature
sg:	Molar entropy at standard conditions
sl:	Liquid phase molar entropy at standard conditions
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
volm:	Molar Volume
zra:	Rackett Parameter