

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	-3518.90 ± 1.00	kJ/mol	NIST Webbook
chl	-3517.60 ± 1.70	kJ/mol	NIST Webbook
chl	-3536.00 ± 2.00	kJ/mol	NIST Webbook
chl	-3499.00 ± 0.80	kJ/mol	NIST Webbook
dm	3.10	debye	KDB

dvisc	0.0020200	Paxs	Densities and Viscosities of Ternary Mixtures of Cyclohexane + Cyclohexanone + Some Alkyl Acetates at 298.15 K
ea	0.00	eV	NIST Webbook
fill	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	-226.30	kJ/mol	NIST Webbook
hf	-225.70	kJ/mol	NIST Webbook
hf	-231.10 ± 0.88	kJ/mol	NIST Webbook
hf	-230.30	kJ/mol	KDB
hf	-227.70 ± 1.90	kJ/mol	NIST Webbook
hfl	-276.10 ± 0.84	kJ/mol	NIST Webbook
hfl	-272.60 ± 1.80	kJ/mol	NIST Webbook
hfl	-254.00 ± 2.00	kJ/mol	NIST Webbook
hfl	-271.40	kJ/mol	NIST Webbook
hfus	1.57	kJ/mol	Joback Method
hvap	33.94	kJ/mol	Joback Method
ie	9.18	eV	NIST Webbook
ie	9.16 ± 0.01	eV	NIST Webbook
ie	9.18	eV	NIST Webbook
ie	9.50 ± 0.20	eV	NIST Webbook
ie	9.14 ± 0.01	eV	NIST Webbook
ie	9.16 ± 0.02	eV	NIST Webbook
ie	9.28	eV	NIST Webbook
ie	9.14 ± 0.03	eV	NIST Webbook
ie	9.14 ± 0.02	eV	NIST Webbook
ie	9.29	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	4600.00 ± 100.00	kPa	NIST Webbook
pc	4000.00 ± 50.00	kPa	NIST Webbook
pc	3850.35 ± 202.65	kPa	NIST Webbook
pc	4000.00	kPa	KDB
rinpol	851.00		NIST Webbook
rinpol	854.10		NIST Webbook

rinpol	896.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	853.90	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	883.00	NIST Webbook
rinpol	867.00	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	895.00	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	139.80	NIST Webbook
rinpol	865.00	NIST Webbook
ripol	1291.00	NIST Webbook
ripol	1301.00	NIST Webbook
ripol	1310.00	NIST Webbook
ripol	1287.00	NIST Webbook
ripol	1282.00	NIST Webbook
ripol	1280.00	NIST Webbook
ripol	1282.00	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	1291.00		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	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	1281.00		NIST Webbook
ripol	1302.00		NIST Webbook
ripol	1282.00		NIST Webbook
ripol	1333.00		NIST Webbook
ripol	1296.00		NIST Webbook
ripol	1291.00		NIST Webbook
ripol	1314.00		NIST Webbook
ripol	1314.00		NIST Webbook
ripol	1315.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1311.00		NIST Webbook
ripol	1275.00		NIST Webbook
ripol	1281.00		NIST Webbook
sg	335.53	J/molxK	NIST Webbook
sl	229.03	J/molxK	NIST Webbook
tb	428.69	K	(Liquid + liquid) equilibria of (water + propionic acid + cyclohexanone) at several temperatures

tb	428.84	K	Excess enthalpies and (vapour + liquid) equilibrium data for the binary mixtures of dimethylsulphoxide with ketones
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	428.58	K	KDB
tc	664.30 ± 3.00	K	NIST Webbook
tc	629.15 ± 1.50	K	NIST Webbook
tc	653.00 ± 3.00	K	NIST Webbook
tc	653.00	K	KDB
tf	242.00	K	KDB
tf	245.90	K	Vapour liquid equilibria, azeotropic data, excess enthalpies, activity coefficients at infinite dilution and solid liquid equilibria for binary alcohol ketone systems
tt	245.21 ± 0.01	K	NIST Webbook
tt	242.40 ± 0.50	K	NIST Webbook
vc	0.312	m ³ /kmol	Joback Method
zra	0.25		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	168.98	J/mol×K	420.00	NIST Webbook
cpg	161.07	J/mol×K	400.00	NIST Webbook
cpg	155.20	J/mol×K	385.00	NIST Webbook
cpg	190.18	J/mol×K	480.00	NIST Webbook
cpg	183.65	J/mol×K	460.00	NIST Webbook
cpg	175.81	J/mol×K	440.00	NIST Webbook
cpl	177.80	J/mol×K	290.00	NIST Webbook
cpl	200.40	J/mol×K	304.20	NIST Webbook
cpl	177.20	J/mol×K	300.00	NIST Webbook

dvisc	0.0025990	Paxs	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	0.0018170	Paxs	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	0.0020190	Paxs	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	0.0016310	Paxs	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	0.0016940	Paxs	308.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols
dvisc	0.0015460	Paxs	313.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols
dvisc	0.0020570	Paxs	298.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols

dvisc	0.0014760	Paxs	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	0.0018470	Paxs	303.15	Densities and Viscosities of Binary Mixtures of Cyclohexanone and 2-Alkanols
dvisc	0.0020212	Paxs	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	0.0015842	Paxs	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	0.0017338	Paxs	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	0.0019045	Paxs	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	0.0015849	Paxs	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	0.0015420	Paxs	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	0.0016570	Paxs	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	0.0018160	Paxs	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	0.0013730	Paxs	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	0.0016320	Paxs	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	0.0019740	Paxs	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	0.0023318	Paxs	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	0.0018057	Paxs	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	0.0021016	Paxs	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
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	8.51	kJ/mol	221.00	NIST Webbook
hfust	1.33	kJ/mol	245.20	NIST Webbook
hsubt	49.30	kJ/mol	254.00	NIST Webbook
hvapt	39.75	kJ/mol	428.20	KDB
hvapt	40.30	kJ/mol	285.50	NIST Webbook
hvapt	40.40	kJ/mol	410.50	NIST Webbook
hvapt	41.50	kJ/mol	400.50	NIST Webbook
hvapt	42.20	kJ/mol	401.50	NIST Webbook
hvapt	41.40 ± 0.10	kJ/mol	348.00	NIST Webbook
hvapt	41.80 ± 0.10	kJ/mol	343.00	NIST Webbook
hvapt	42.20 ± 0.10	kJ/mol	338.00	NIST Webbook
hvapt	43.40 ± 0.10	kJ/mol	323.00	NIST Webbook
hvapt	43.10 ± 0.10	kJ/mol	328.00	NIST Webbook
hvapt	44.40 ± 0.10	kJ/mol	308.00	NIST Webbook
hvapt	45.13	kJ/mol	428.80	NIST Webbook
hvapt	44.00	kJ/mol	373.00	NIST Webbook
hvapt	44.00 ± 0.10	kJ/mol	313.00	NIST Webbook
hvapt	43.10	kJ/mol	385.00	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	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	95.30	kPa	426.25	Excess Molar Enthalpies and Vapor-Liquid Equilibrium for N-Methyl-2-pyrrolidone 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	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	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
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	1.45030		298.20	Tie-line data for the aqueous solutions of phenol with organic solvents at T = 298.2 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	1.44610	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	1.44980	298.15	Solubility of a-Carotene in Binary Solvents Formed by Some Hydrocarbons with 2,5,8-Trioxanonane, 2-Propanone, and Cyclohexanone
rfi	1.45100	298.15	Bubble temperature measurements on the binary mixtures formed by decane with a variety of compounds at 95.8 kPa
rfi	1.45070	293.15	Effect of temperature on the volumetric properties of (cyclohexanone + an aromatic hydrocarbon)

rfi	1.45070		293.10	Volumetric properties of (cyclohexanone + a xylene) at temperature between (293.15 and 353.15) K
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	1.44400		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	1.45010		298.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K
rhoI	941.10	kg/m3	298.15	Isobaric Vapor-Liquid Phase Equilibrium Measurements, Correlation, and Prediction for Separation of the Mixtures of Cyclohexanone and Alcohols

rhoI	933.19	kg/m3	308.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhoI	938.07	kg/m3	303.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhoI	942.92	kg/m3	298.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhoI	947.38	kg/m3	293.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhoI	928.79	kg/m3	313.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rhoI	948.80	kg/m3	293.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
rhoI	937.77	kg/m3	303.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure

rho	946.71	kg/m ³	293.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	
rho	938.20	kg/m ³	303.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory	
rho	942.24	kg/m ³	298.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure	
rho	942.20	kg/m ³	298.15	Excess molar enthalpies for binary mixtures of cyclopentanone, cyclohexanone, or cycloheptanone with n-nonane at T = 298.15 K and atmospheric pressure	
rho	933.50	kg/m ³	308.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory	
rho	951.00	kg/m ³	288.00	KDB	
rho	928.80	kg/m ³	313.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory	

rhoI	924.40	kg/m3	318.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
rhoI	920.70	kg/m3	323.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
rhoI	947.60	kg/m3	293.10	Vapor-Liquid Equilibrium for Binary Systems of Cyclohexane + Cyclohexanone and + Cyclohexanol at Temperatures from (414.0 to 433.7) K
rhoI	951.69	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
rhoI	937.55	kg/m3	303.15	Excess molar volumes and ultrasonic studies of dimethylsulphoxide with ketones at T = 303.15 K
rhoI	943.10	kg/m3	298.15	Correlation Studies of Cyclohexanone/(C5-C10) Alkan-1-ol Binary Mixtures: PC-SAFT Model and Free Volume Theory
rhoI	942.76	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

rhoI	933.80	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
rhoI	933.28	kg/m3	308.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rhoI	951.18	kg/m3	288.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rhoI	924.82	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
sfust	39.22	J/molxK	220.80	NIST Webbook
sfust	5.42	J/molxK	245.20	NIST Webbook
sfust	38.50	J/molxK	221.00	NIST Webbook
sfust	5.20	J/molxK	242.60	NIST Webbook

Pressure Dependent Properties

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

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.55797e+01
Coeff. B	-4.36137e+03
Coeff. C	-3.01140e+01
Temperature range (K), min.	315.32
Temperature range (K), max.	454.86

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C*\ln(T) + D*T^2$
Coeff. A	1.05154e+02
Coeff. B	-8.84188e+03
Coeff. C	-1.35148e+01
Coeff. D	1.08668e-05
Temperature range (K), min.	242.00
Temperature range (K), max.	629.15

Sources

Vapour pressure and excess Gibbs energy of binary 1,2-dichloroethane + methanol and correlation of liquid-liquid equilibria for the ternary system water + cyclohexanol + 1,2-dichloroethane and 1,2-dichloroethane + dimethyl sulfoxide in different pure solvents and binary mixtures (dimethyl sulfoxide p water) (vapour-liquid equilibria and excess Gibbs free energies of cyclohexanone + propylbutane and + 1,1,1-trichloroethane) binary mixtures at temperatures from (298.15 to 318.15) K: 1,7-(Propane-1,3-diyl)-bis(3-methyl-1H-imidazolium-1-yl)

Densities, Viscosities and Refractive Indices of Binary Mixtures of Diethyl Oxalate with Some Ketones at (303.15, 308.15, and 313.15) K: KDB Pure (Korean Thermophysical Properties Databank): Thermodynamic Properties for 2-(1'-Hydroxycyclohexyl)cyclohexanone and 2-(1'-Hydroxycyclohexyl)cyclohexanone + dimethyl sulfoxide and dimethyl sulfoxide + dimethyl sulfoxide with methanol at 303.15 K: Correlation for Solubilities of Succinic Acid and Glycidic Acid in a Cap for ternary system water + succinic acid + glycidic acid and cyclohexanone Mixtures of Cyclohexanone + Some Alkyl Acetates at 298.15 K:

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Solubility of
Cyclotrimethylenetrinitramine (RDX) in
Binary Solvent Mixtures: Correlation for the
Solubility of Adipic Acid and Succinic
Acid in Guaiacol, Ethylurea, and Acetone
Spectroscopic Characterization of Binary
Mixtures of Cyclotrimethylenetrinitramine and
N,N-Dimethyl-2-pyrrolidone as Proportions at
Microfluidic and Nanofluidic Scales in
the Ternary Phase Diagrams of the Ternary System
and Spectroscopic Characterization of the Ternary
Bis(2,2,2-trifluoroethyl)malonate and N,N-Dimethyl-2-pyrrolidone using
Terminally Functionalized Poly-
Chromatography:

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Legend

af:	Acentric Factor
affp:	Proton affinity
aignt:	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
fill:	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
rho:	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
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
zra:	Rackett Parameter

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