

# Tetrahydropyran

Other names:	2H-Pyran, tetrahydro- Oxacyclohexane Oxane Pentamethylene oxide THP Tetrahydro-2H-pyran tetrahydropyrane
Inchi:	InChI=1S/C5H10O/c1-2-4-6-5-3-1/h1-5H2
InchiKey:	DHXVGJBLRPWPCS-UHFFFAOYSA-N
Formula:	C5H10O
SMILES:	C1CCOCC1
Mol. weight [g/mol]:	86.13
CAS:	142-68-7

## Physical Properties

Property code	Value	Unit	Source
affp	822.80	kJ/mol	NIST Webbook
basg	799.10 ± 0.10	kJ/mol	NIST Webbook
basg	799.20	kJ/mol	NIST Webbook
basg	795.40	kJ/mol	NIST Webbook
chg	-3173.30 ± 0.96	kJ/mol	NIST Webbook
chl	-3137.60 ± 0.84	kJ/mol	NIST Webbook
chl	-3150.00 ± 6.30	kJ/mol	NIST Webbook
chl	-3141.90 ± 1.30	kJ/mol	NIST Webbook
gf	-62.74	kJ/mol	Joback Method
hf	-223.40 ± 1.50	kJ/mol	NIST Webbook
hf	-220.00 ± 3.00	kJ/mol	NIST Webbook
hf	-223.80 ± 1.00	kJ/mol	NIST Webbook
hfl	-255.00 ± 2.00	kJ/mol	NIST Webbook
hfus	7.45	kJ/mol	Joback Method
hvap	35.00	kJ/mol	NIST Webbook
hvap	34.90	kJ/mol	NIST Webbook
hvap	38.20 ± 1.10	kJ/mol	NIST Webbook
hvap	34.67	kJ/mol	NIST Webbook
ie	9.25 ± 0.01	eV	NIST Webbook
ie	9.16	eV	NIST Webbook
ie	9.24 ± 0.05	eV	NIST Webbook

ie	9.25 ± 0.01	eV	NIST Webbook
ie	9.26 ± 0.03	eV	NIST Webbook
ie	9.57	eV	NIST Webbook
ie	9.46	eV	NIST Webbook
ie	9.50	eV	NIST Webbook
ie	9.48	eV	NIST Webbook
log10ws	-0.03		Aqueous Solubility Prediction Method
log10ws	-0.03		Estimated Solubility Method
logp	1.187		Crippen Method
mccvol	76.320	ml/mol	McGowan Method
pc	4770.00 ± 14.18	kPa	NIST Webbook
rhoc	328.37 ± 0.48	kg/m3	NIST Webbook
rinpol	736.00		NIST Webbook
rinpol	740.00		NIST Webbook
rinpol	720.00		NIST Webbook
rinpol	740.00		NIST Webbook
rinpol	714.00		NIST Webbook
rinpol	689.00		NIST Webbook
rinpol	697.00		NIST Webbook
rinpol	709.00		NIST Webbook
rinpol	689.00		NIST Webbook
rinpol	690.00		NIST Webbook
rinpol	689.00		NIST Webbook
rinpol	714.00		NIST Webbook
rinpol	714.00		NIST Webbook
rinpol	729.00		NIST Webbook
rinpol	714.00		NIST Webbook
ripol	988.00		NIST Webbook
ripol	1010.00		NIST Webbook
ripol	930.00		NIST Webbook
ripol	930.00		NIST Webbook
ripol	965.00		NIST Webbook
ripol	972.00		NIST Webbook
ripol	969.00		NIST Webbook
tb	361.36	K	Vapor Liquid Equilibrium, Densities, and Interfacial Tensions of the System Ethanol + Tetrahydro-2H-pyran
tb	361.23	K	Study of tetrahydropyran-chlorobutane VLE using the a o and o o approaches
tb	361.00 ± 3.00	K	NIST Webbook
tb	361.20 ± 1.50	K	NIST Webbook

tb	361.35 ± 0.30	K	NIST Webbook
tb	361.15 ± 1.00	K	NIST Webbook
tb	361.05 ± 0.20	K	NIST Webbook
tb	361.00	K	NIST Webbook
tb	361.23	K	Study of isobaric vapour liquid equilibrium of some cyclic ethers with 1-chloropropane: Experimental results and SAFT-VR modelling
tb	361.20	K	NIST Webbook
tb	360.15 ± 1.00	K	NIST Webbook
tb	361.31	K	Experimental Isobaric Vapor-Liquid Equilibrium Data for Binary Mixtures of Cyclic Ethers with (1-Methylethyl)benzene
tc	572.20 ± 0.30	K	NIST Webbook
tf	226.82	K	Aqueous Solubility Prediction Method
tf	224.00 ± 0.10	K	NIST Webbook
tf	224.15 ± 1.00	K	NIST Webbook
tf	223.95 ± 0.30	K	NIST Webbook
vc	0.271	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.60	J/molxK	433.96	Joback Method
cpg	126.39	J/molxK	364.97	Joback Method
cpg	139.33	J/molxK	399.46	Joback Method
cpg	194.46	J/molxK	571.94	Joback Method
cpg	184.64	J/molxK	537.44	Joback Method
cpg	174.24	J/molxK	502.95	Joback Method
cpg	163.23	J/molxK	468.45	Joback Method
cpl	140.60	J/molxK	298.00	NIST Webbook

cpl	145.20	J/molxK	293.15	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Tetrahydropyran and + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K
cpl	151.13	J/molxK	297.62	NIST Webbook
cpl	143.40	J/molxK	288.15	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Tetrahydropyran and + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K
cpl	164.20	J/molxK	333.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model
cpl	147.80	J/molxK	298.15	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Tetrahydropyran and + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K

cpl	150.20	J/molxK	303.15	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Tetrahydropyran and + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K
cpl	159.10	J/molxK	323.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model
cpl	152.60	J/molxK	308.15	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Tetrahydropyran and + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K
cpl	156.00	J/molxK	313.15	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Tetrahydropyran and + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K
cpl	149.70	J/molxK	303.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model

cpl	143.90	J/mol×K	288.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model
cpl	146.30	J/mol×K	293.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model
cpl	147.90	J/mol×K	298.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model
cpl	157.60	J/mol×K	318.15	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Tetrahydropyran and + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K
cpl	151.70	J/mol×K	308.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model
cpl	154.30	J/mol×K	313.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model

cpl	156.50	J/molxK	318.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model
cpl	159.90	J/molxK	323.15	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Tetrahydropyran and + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K
cpl	161.60	J/molxK	328.15	Thermophysical properties of dimethyl sulfoxide + cyclic and linear ethers at 308.15K Application of an extended cell model
cpl	149.21	J/molxK	298.15	NIST Webbook
cpl	149.60	J/molxK	298.15	NIST Webbook
dvisc	0.0010047	Paxs	283.15	Excess Enthalpy, Excess Volume, Viscosity Deviation, and Speed of Sound Deviation for the Mixture Tetrahydropyran + 2,2,2-Trifluoroethanol at (283.15, 298.15, and 313.15) K
dvisc	0.0008090	Paxs	298.15	Excess Enthalpy, Density, Viscosity, and Speed of Sound for the Mixture Tetrahydropyran + 1-Butanol at (283.15, 298.15 and, 313.15) K

dvisc	0.0010240	Paxs	283.15	Excess Enthalpy, Density, Viscosity, and Speed of Sound for the Mixture Tetrahydropyran + 1-Butanol at (283.15, 298.15 and, 313.15) K
dvisc	0.0006494	Paxs	313.15	Excess Enthalpy, Excess Volume, Viscosity Deviation, and Speed of Sound Deviation for the Mixture Tetrahydropyran + 2,2,2-Trifluoroethanol at (283.15, 298.15, and 313.15) K
dvisc	0.0008005	Paxs	298.15	Excess Enthalpy, Excess Volume, Viscosity Deviation, and Speed of Sound Deviation for the Mixture Tetrahydropyran + 2,2,2-Trifluoroethanol at (283.15, 298.15, and 313.15) K
dvisc	0.0006278	Paxs	313.15	Excess Enthalpy, Density, Viscosity, and Speed of Sound for the Mixture Tetrahydropyran + 1-Butanol at (283.15, 298.15 and, 313.15) K
hvapt	36.00	kJ/mol	293.00	NIST Webbook
hvapt	35.00	kJ/mol	280.50	NIST Webbook
hvapt	33.20	kJ/mol	373.50	NIST Webbook
hvapt	36.00	kJ/mol	323.50	NIST Webbook
hvapt	31.17	kJ/mol	361.00	NIST Webbook
hvapt	35.00	kJ/mol	317.50	NIST Webbook
kvisc	0.0000009	m2/s	298.15	Thermophysical Properties of Mixtures of Tetrahydropyran with Chlorobutanes



kvisc	0.0000011	m2/s	283.15	Experimental and predicted viscosities of binary mixtures of cyclic ethers with 1-chloropentane or 1-chlorohexane at 283.15, 298.15, and 313.15K
kvisc	0.0000009	m2/s	298.15	Experimental and predicted viscosities of binary mixtures of cyclic ethers with 1-chloropentane or 1-chlorohexane at 283.15, 298.15, and 313.15K
kvisc	0.0000008	m2/s	313.15	Experimental and predicted viscosities of binary mixtures of cyclic ethers with 1-chloropentane or 1-chlorohexane at 283.15, 298.15, and 313.15K
kvisc	0.0000008	m2/s	313.15	Thermophysical Properties of Mixtures of Tetrahydropyran with Chlorobutanes
pvap	1.13	kPa	260.07	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran

pvap	98.66	kPa	360.22	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran
pvap	93.33	kPa	358.37	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran
pvap	79.99	kPa	353.38	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran

pvap	53.33	kPa	341.09	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran
pvap	40.00	kPa	332.98	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran
pvap	10.23	kPa	300.01	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran

pvap	6.30	kPa	290.00	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran
pvap	6.28	kPa	289.94	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran
pvap	3.70	kPa	279.82	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran

pvap	2.16	kPa	270.28	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran
pvap	66.66	kPa	347.72	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran
pvap	9.53	kPa	298.15	Thermodynamic Properties of Binary Mixtures of Tetrahydropyran with Anilines at 308.15 K
pvap	18.93	kPa	313.73	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols

pvap	15.69	kPa	309.21	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	13.15	kPa	305.40	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	10.96	kPa	301.11	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	8.99	kPa	296.98	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	6.90	kPa	291.32	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols

pvap	4.98	kPa	284.90	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	3.49	kPa	278.41	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	2.70	kPa	273.74	Vapor Pressure and Its Temperature Dependence of 28 Organic Compounds: Cyclic Amines, Cyclic Ethers, and Cyclic and Open Chain Secondary Alcohols
pvap	33.95	kPa	328.15	Isothermal (vapour + liquid) equilibrium of (cyclic ethers + chlorohexane) mixtures: Experimental results and SAFT modelling
pvap	9.56	kPa	298.15	Isothermal (vapour + liquid) equilibrium of (cyclic ethers + chlorohexane) mixtures: Experimental results and SAFT modelling
pvap	18.66	kPa	313.15	Isothermal vapour-liquid equilibrium for cyclic ethers with 1-chloropentane
pvap	9.56	kPa	298.15	Isothermal vapour-liquid equilibrium for cyclic ethers with 1-chloropentane

pvap	0.98	kPa	257.96	Henry s Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethylether, Chloroethane, 1,1-Difluoroethane, and Hexane in Tetrahydropyran
pvap	33.95	kPa	328.15	Isothermal vapour-liquid equilibrium for cyclic ethers with 1-chloropentane
rfi	1.42000		298.15	Experimental determination and theoretical modeling of the vapor liquid equilibrium and densities of the binary system butan-2-ol + tetrahydro-2H-pyran
rfi	1.41864		298.15	(Vapour + liquid) equilibria for binary and ternary mixtures of 2-propanol, tetrahydropyran, and 2,2,4-trimethylpentane at P = 101.3 kPa
rfi	1.42004		298.15	Atmospheric densities and interfacial tensions for 1- alkanol (1-butanol to 1-octanol) + water and ether (MTBE, ETBE, DIPE, TAME and THP) + water demixed mixtures.
rfi	1.42000		298.15	Vapor-liquid equilibrium and interfacial tensions of the system ethanol + hexane + tetrahydro-2H-Pyran



rfi	1.42000		298.15	Experimental determination and theoretical modeling of the vapor-liquid equilibrium and surface tensions of hexane + tetrahydro-2H-pyran
rhoI	879.13	kg/m3	298.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities
rhoI	879.00	kg/m3	298.15	Isobaric Vapor-Liquid Equilibria for Tetrahydropyran and Alcohol Systems
rhoI	868.83	kg/m3	308.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities
rhoI	873.99	kg/m3	303.15	Thermodynamic Properties of Ternary Liquid Mixtures Containing o-Chlorotoluene: Excess Molar Volumes and Excess Isentropic Compressibilities
rhoI	878.81	kg/m3	298.15	Surface Tension of Mixtures of Tetrahydrofuran or Tetrahydropyran with Isomeric Chlorobutanes
rhoI	878.80	kg/m3	298.15	Vapour liquid equilibrium of cyclic ethers with 1-chlorohexane: Experimental results and UNIFAC predictions

rhoI	868.83	kg/m3	308.15	Densities, Speeds of Sound, Excess Molar Enthalpies, and Heat Capacities of o-Chlorotoluene and Cyclic Ether Mixtures
rhoI	873.99	kg/m3	303.15	Densities, Speeds of Sound, Excess Molar Enthalpies, and Heat Capacities of o-Chlorotoluene and Cyclic Ether Mixtures
rhoI	879.13	kg/m3	298.15	Densities, Speeds of Sound, Excess Molar Enthalpies, and Heat Capacities of o-Chlorotoluene and Cyclic Ether Mixtures
rhoI	863.43	kg/m3	313.15	Volumetric Properties of Binary Mixtures of N-Ethylformamide with Tetrahydropyran, 2-Pentanone, and Propylacetate from (293.15 to 313.15) K
rhoI	868.67	kg/m3	308.15	Volumetric Properties of Binary Mixtures of N-Ethylformamide with Tetrahydropyran, 2-Pentanone, and Propylacetate from (293.15 to 313.15) K
rhoI	873.79	kg/m3	303.15	Volumetric Properties of Binary Mixtures of N-Ethylformamide with Tetrahydropyran, 2-Pentanone, and Propylacetate from (293.15 to 313.15) K

rhoI	878.95	kg/m3	298.15	Volumetric Properties of Binary Mixtures of N-Ethylformamide with Tetrahydropyran, 2-Pentanone, and Propylacetate from (293.15 to 313.15) K
rhoI	884.08	kg/m3	293.15	Volumetric Properties of Binary Mixtures of N-Ethylformamide with Tetrahydropyran, 2-Pentanone, and Propylacetate from (293.15 to 313.15) K
rhoI	878.82	kg/m3	298.15	Study of the Surface Tension of Chlorocyclohexane or Bromocyclohexane with Some Cyclic Ethers
rhoI	873.99	kg/m3	303.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons
rhoI	868.75	kg/m3	308.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhoI	873.91	kg/m3	303.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones

rhoI	879.09	kg/m3	298.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhoI	884.23	kg/m3	293.15	Thermodynamic Studies of Molecular Interactions in Mixtures Containing Tetrahydropyran, 1,4-dioxane and Cyclic ketones
rhoI	868.81	kg/m3	308.15	Excess molar volumes and isentropic compressibilities changes of mixing of tetrahydropyran + benzene + cyclo or n-alkanes ternary mixtures at 308.15 K
rhoI	868.83	kg/m3	308.15	Excess molar volumes and excess isentropic compressibilities of binary and ternary mixtures of o-chlorotoluene with cyclic ether and amides or cyclohexane at different temperatures
rhoI	879.13	kg/m3	298.15	Excess molar volumes and excess isentropic compressibilities of binary and ternary mixtures of o-chlorotoluene with cyclic ether and amides or cyclohexane at different temperatures

rhoI	879.14	kg/m3	298.15	Thermodynamic and topological investigations of ternary mixtures with o-toluidine, tetrahydropyran, and picolines: Excess molar volume and excess isentropic compressibility
rhoI	868.83	kg/m3	308.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons
rhoI	879.16	kg/m3	298.15	Isothermal Vapor-Liquid Equilibria and Excess Gibbs Energies for Binary Mixtures of Cyclic Ethers with 1,2-Dichloroethane
rhoI	879.13	kg/m3	298.15	Heat capacities of binary and ternary mixtures containing o-chlorotoluene, cyclic ether and aromatic hydrocarbons
rhoI	873.99	kg/m3	303.15	Excess molar volumes and excess isentropic compressibilities of binary and ternary mixtures of o-chlorotoluene with cyclic ether and amides or cyclohexane at different temperatures
speedsl	1246.83	m/s	303.15	Topological investigations of molecular interactions of binary and ternary mixtures containing tetrahydropyran, o-toluidine and N-methyl formamide

speedsl	1269.88	m/s	298.15	Topological investigations of molecular interactions of binary and ternary mixtures containing tetrahydropyran, o-toluidine and N-methyl formamide
speedsl	1224.47	m/s	308.15	Thermodynamic properties of binary mixtures of tetrahydropyran with pyridine and isomeric picolines: Excess molar volumes, excess molar enthalpies and excess isentropic compressibilities
speedsl	1246.83	m/s	303.15	Thermodynamic properties of binary mixtures of tetrahydropyran with pyridine and isomeric picolines: Excess molar volumes, excess molar enthalpies and excess isentropic compressibilities
speedsl	1269.88	m/s	298.15	Thermodynamic properties of binary mixtures of tetrahydropyran with pyridine and isomeric picolines: Excess molar volumes, excess molar enthalpies and excess isentropic compressibilities
speedsl	1272.00	m/s	298.15	Isentropic Compressibilities Changes of Mixing of Tetrahydropyran and Aromatic Hydrocarbons Ternary Mixtures at 308.15 K

speedsl	1224.47	m/s	308.15	Topological investigations of molecular interactions of binary and ternary mixtures containing tetrahydropyran, o-toluidine and N-methyl formamide
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Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	1.03083e+02
Coeff. B	-7.40540e+03
Coeff. C	-1.35698e+01
Coeff. D	1.49079e-05
Temperature range (K), min.	273.15
Temperature range (K), max.	314.15

Datasets

Refractive index (Na D-line)

Temperature, K - Liquid	Pressure, kPa - Liquid	Refractive index (Na D-line) - Liquid
298.15	101.33	1.4186
293.15	101.00	1.39161
303.15	101.00	1.3866
313.15	101.00	1.38143
323.15	101.00	1.37627
293.15	101.00	1.42109
303.15	101.00	1.41599
313.15	101.00	1.41092
323.15	101.00	1.40554

[illegible]

<https://www.tandfonline.com/doi/full/10.1080/00141801.2020.2004000>



# Study of the Surface Tension of Chlorocyclohexane or Bromocyclohexane with some Cytaril

<https://www.doi.org/10.1021/je0500577>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C142687&Units=SI>

<https://www.doi.org/10.1016/j.fluid.2005.02.014>

<https://www.doi.org/10.1021/acs.iced.6b00606>

<https://www.doi.org/10.1021/je400722h>

<http://link.springer.com/article/10.1007/BF02311772>

<https://www.chemic.org/files/research/kdb/mol/mol1038.mol>

<https://www.doi.org/10.1021/je600557n>

<https://www.doi.org/10.1016/j.tca.2010.03.012>

<https://www.doi.org/10.1021/ie900347f>

<https://www.doi.org/10.1021/je800145h>

<https://www.doi.org/10.1016/j.ijct.2011.10.002>

<https://www.doi.org/10.1021/je1005196>

<https://www.doi.org/10.1021/je9010097>

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

<https://www.doi.org/10.1016/j.ijct.2010.08.019>

<https://www.doi.org/10.1021/je900077a>

Excess molar volumes, excess molar enthalpies, and excess isentropic compressibilities for ternary chloroform + 1,2-dichloroethane + 1,1,2,2-tetrachloroethane systems at 298.15 K and 0.1 MPa. With using the group and group approaches: Thermodynamic Studies of Molecular Interactions in Mixtures Containing Perfluorinated Compounds, Excess Molar Enthalpies, and Heat Capacities of Gaseous Methane and Cyclic Ether Mixtures: KDB:

[illegible]

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<b>chg:</b>	Standard gas enthalpy of combustion
<b>chl:</b>	Standard liquid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>cpl:</b>	Liquid phase heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfl:</b>	Liquid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>ie:</b>	Ionization energy
<b>kvisc:</b>	Kinematic viscosity
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>rfi:</b>	Refractive Index
<b>rhoc:</b>	Critical density
<b>rhol:</b>	Liquid Density
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>speedsl:</b>	Speed of sound in fluid
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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