Carbon Tetrachloride

Other names:

BENZINOFORM
Benzenoform
CCl4
Carbon chloride (CCl4)
Carbon tet
Carbona
Chlorid uhlicity
Czterochlorek wegla
ENT 27164
ENT 4,705
Fasciolin
Flukoids
Freon 10
Halon 1040
Katharin
Methane tetrachloride
Methane, tetrachloro-
NSC 97063
Necatorina
Necatorine
Perchloromethane
R 10
R 10 (Refrigerant)
R-10
REFRIGERANT-10
Rcra waste number U211
Seretin
TETRACHLOROMETHANE
Tetrachloorkoolstof
Tetrachloormetaan
Tetrachlorkohlenstoff, tetra
Tetrachlormethan
Tetrachlorocarbon
Tetrachlorure de carbone
Tetraclorometano
Tetracloruro di carbonio
Tetrafinol
Tetraform
Tetrasol
Thawpit

	UN 1846
	Univerm
	Vermoestricid
Inchi:	InChI=1S/CCl4/c2-1(3,4)5
InchiKey:	VZGDMQKNWNREIO-UHFFFAOYSA-N
Formula:	CCl4
SMILES:	ClC(Cl)(Cl)Cl
Mol. weight [g/mol]:	153.82
CAS:	56-23-5

Physical Properties

Property code	Value	Unit	Source
af	0.1930		KDB
chl	-365.70 ± 8.40	kJ/mol	NIST Webbook
chl	-359.90	kJ/mol	NIST Webbook
dm	0.00	debye	KDB
dvisc	0.0009096	Pa×s	Densities and Viscosities of Binary Liquid Mixtures of Trichloroethylene and Tetrachloroethylene with Some Polar and Nonpolar Solvents
dvisc	0.0009020	Pa×s	Ion Pair and Triple Ion Formation by Some Tetraalkylammonium Iodides in Binary Mixtures of Carbon Tetrachloride + Nitrobenzene
ea	0.80 ± 0.34	eV	NIST Webbook
ea	2.00 ± 0.20	eV	NIST Webbook
ea	2.12 ± 0.10	eV	NIST Webbook
ea	2.00 ± 0.20	eV	NIST Webbook
gf	-58.28	kJ/mol	KDB
gyrad	3.4580		KDB
hf	-103.00 ± 7.90	kJ/mol	NIST Webbook
hf	-100.50	kJ/mol	KDB
hf	-115.00 ± 3.00	kJ/mol	NIST Webbook
hf	-125.00 ± 4.60	kJ/mol	NIST Webbook
hf	-95.60 ± 2.50	kJ/mol	NIST Webbook
hf	-94.00 ± 2.00	kJ/mol	NIST Webbook
hfl	-128.40	kJ/mol	NIST Webbook
hfl	-128.10 ± 2.50	kJ/mol	NIST Webbook
hfus	7.72	kJ/mol	Joback Method

hvap	32.41 ± 0.02	kJ/mol	NIST Webbook
hvap	32.54	kJ/mol	NIST Webbook
hvap	32.54 ± 0.10	kJ/mol	NIST Webbook
hvap	32.55 ± 0.07	kJ/mol	NIST Webbook
hvap	32.43 ± 0.03	kJ/mol	NIST Webbook
hvap	30.00 ± 0.01	kJ/mol	NIST Webbook
hvap	32.40	kJ/mol	NIST Webbook
ie	11.47	eV	NIST Webbook
ie	11.30	eV	NIST Webbook
ie	11.47 ± 0.01	eV	NIST Webbook
ie	11.69	eV	NIST Webbook
ie	11.50 ± 0.10	eV	NIST Webbook
ie	11.47 ± 0.08	eV	NIST Webbook
ie	11.00 ± 1.00	eV	NIST Webbook
ie	11.47 ± 0.01	eV	NIST Webbook
ie	11.69	eV	NIST Webbook
log10ws	-2.30		Aqueous Solubility Prediction Method
log10ws	-2.31		Estimated Solubility Method
logp	2.553		Crippen Method
mcvol	73.910	ml/mol	McGowan Method
nfpah	%!d(float64=4)		KDB
pc	4516.00	kPa	KDB
pc	4493.00 ± 50.00	kPa	NIST Webbook
pc	4557.60 ± 10.13	kPa	NIST Webbook
rhoc	556.84 ± 3.08	kg/m3	NIST Webbook
rhoc	557.61 ± 4.61	kg/m3	NIST Webbook
rhoc	557.61 ± 3.08	kg/m3	NIST Webbook
rinpol	660.00		NIST Webbook
rinpol	618.00		NIST Webbook
rinpol	662.00		NIST Webbook
rinpol	648.00		NIST Webbook
rinpol	680.00		NIST Webbook
rinpol	628.00		NIST Webbook
rinpol	667.00		NIST Webbook
rinpol	680.00		NIST Webbook
rinpol	680.70		NIST Webbook
rinpol	664.00		NIST Webbook
rinpol	647.00		NIST Webbook
rinpol	679.00		NIST Webbook
rinpol	669.00		NIST Webbook
rinpol	673.00		NIST Webbook
rinpol	656.00		NIST Webbook
rinpol	682.00		NIST Webbook

rinpol	672.00	NIST Webbook
rinpol	656.00	NIST Webbook
rinpol	628.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	680.50	NIST Webbook
rinpol	659.00	NIST Webbook
rinpol	645.70	NIST Webbook
rinpol	645.00	NIST Webbook
rinpol	658.00	NIST Webbook
rinpol	649.00	NIST Webbook
rinpol	659.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	658.00	NIST Webbook
rinpol	646.00	NIST Webbook
rinpol	659.00	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	645.00	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	645.00	NIST Webbook
rinpol	658.00	NIST Webbook
rinpol	664.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	658.00	NIST Webbook
rinpol	645.00	NIST Webbook
rinpol	645.00	NIST Webbook
rinpol	654.00	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	663.00	NIST Webbook
rinpol	656.00	NIST Webbook
rinpol	659.00	NIST Webbook
rinpol	675.00	NIST Webbook
rinpol	651.00	NIST Webbook
rinpol	611.00	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	652.00	NIST Webbook
rinpol	663.00	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	645.70	NIST Webbook
rinpol	663.10	NIST Webbook
rinpol	657.00	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	691.00	NIST Webbook
rinpol	680.50	NIST Webbook
ripol	886.00	NIST Webbook

ripol	888.00		NIST Webbook
ripol	886.00		NIST Webbook
ripol	864.00		NIST Webbook
ripol	900.00		NIST Webbook
ripol	900.00		NIST Webbook
ripol	908.00		NIST Webbook
ripol	879.00		NIST Webbook
ripol	868.00		NIST Webbook
ripol	895.00		NIST Webbook
ripol	888.00		NIST Webbook
ripol	886.54		NIST Webbook
ripol	902.20		NIST Webbook
ripol	900.66		NIST Webbook
ripol	872.00		NIST Webbook
sl	214.39	J/mol×K	NIST Webbook
sl	205.40	J/mol×K	NIST Webbook
sl	219.20	J/mol×K	NIST Webbook
tb	349.84 ± 0.06	K	NIST Webbook
tb	349.85 ± 0.50	K	NIST Webbook
tb	348.40 ± 1.50	K	NIST Webbook
tb	349.90 ± 0.20	K	NIST Webbook
tb	349.90 ± 0.20	K	NIST Webbook
tb	349.89 ± 0.30	K	NIST Webbook
tb	349.62 ± 0.20	K	NIST Webbook
tb	349.62 ± 0.30	K	NIST Webbook
tb	350.00 ± 0.20	K	NIST Webbook
tb	349.87 ± 0.20	K	NIST Webbook
tb	349.90 ± 0.50	K	NIST Webbook
tb	349.90 ± 0.50	K	NIST Webbook
tb	349.90 ± 0.50	K	NIST Webbook
tb	349.90 ± 0.40	K	NIST Webbook
tb	349.60 ± 0.30	K	NIST Webbook
tb	350.00 ± 0.20	K	NIST Webbook
tb	349.55 ± 0.20	K	NIST Webbook
tb	349.86 ± 0.30	K	NIST Webbook
tb	349.90 ± 0.25	K	NIST Webbook
tb	349.89 ± 0.05	K	NIST Webbook
tb	349.60 ± 0.50	K	NIST Webbook
tb	349.65 ± 0.30	K	NIST Webbook
tb	349.83 ± 0.05	K	NIST Webbook
tb	349.85 ± 0.20	K	NIST Webbook
tb	349.90 ± 0.30	K	NIST Webbook
tb	350.20 ± 0.60	K	NIST Webbook
tb	349.75 ± 0.50	K	NIST Webbook

tb	349.65 ± 0.50	K	NIST Webbook
tb	349.90 ± 0.30	K	NIST Webbook
tb	350.15 ± 0.50	K	NIST Webbook
tb	349.95 ± 0.30	K	NIST Webbook
tb	350.02 ± 0.30	K	NIST Webbook
tb	419.40 ± 0.40	K	NIST Webbook
tb	349.75 ± 0.40	K	NIST Webbook
tb	349.85 ± 0.30	K	NIST Webbook
tb	349.90 ± 0.20	K	NIST Webbook
tb	349.94 ± 0.30	K	NIST Webbook
tb	349.15 ± 1.00	K	NIST Webbook
tb	349.90 ± 0.30	K	NIST Webbook
tb	349.75 ± 0.30	K	NIST Webbook
tb	349.90 ± 0.07	K	NIST Webbook
tb	349.90 ± 0.30	K	NIST Webbook
tb	349.65 ± 1.00	K	NIST Webbook
tb	349.87 ± 0.15	K	NIST Webbook
tb	349.81 ± 0.10	K	NIST Webbook
tb	349.90 ± 0.20	K	NIST Webbook
tb	349.90 ± 0.20	K	NIST Webbook
tb	350.05 ± 0.50	K	NIST Webbook
tb	350.15 ± 0.40	K	NIST Webbook
tb	349.85 ± 0.50	K	NIST Webbook
tb	349.95 ± 0.30	K	NIST Webbook
tb	349.80 ± 0.15	K	NIST Webbook
tb	349.45 ± 0.20	K	NIST Webbook
tb	349.00 ± 1.50	K	NIST Webbook
tb	349.85 ± 0.20	K	NIST Webbook
tb	350.05 ± 0.30	K	NIST Webbook
tb	349.83 ± 0.20	K	NIST Webbook
tb	349.76 ± 0.20	K	NIST Webbook
tb	349.90 ± 0.50	K	NIST Webbook
tb	350.10 ± 0.30	K	NIST Webbook
tb	349.98 ± 0.10	K	NIST Webbook
tb	349.98 ± 0.30	K	NIST Webbook
tb	349.90	K	NIST Webbook
tb	349.35 ± 0.50	K	NIST Webbook
tb	349.35 ± 0.50	K	NIST Webbook
tb	350.62 ± 0.05	K	NIST Webbook
tb	349.35 ± 0.30	K	NIST Webbook
tb	349.85 ± 0.30	K	NIST Webbook
tb	350.20 ± 0.50	K	NIST Webbook
tb	349.90	K	KDB
tb	349.90 ± 0.40	K	NIST Webbook

tb	350.10 ± 0.40	K	NIST Webbook
tb	349.90 ± 0.40	K	NIST Webbook
tb	349.85 ± 0.30	K	NIST Webbook
tb	349.90 ± 0.30	K	NIST Webbook
tb	349.80 ± 0.15	K	NIST Webbook
tb	349.55 ± 0.40	K	NIST Webbook
tb	349.90 ± 0.20	K	NIST Webbook
tb	349.85 ± 0.06	K	NIST Webbook
tb	349.85 ± 0.20	K	NIST Webbook
tb	349.80 ± 0.15	K	NIST Webbook
tb	349.85 ± 0.20	K	NIST Webbook
tb	349.60 ± 0.20	K	NIST Webbook
tb	349.88 ± 0.20	K	NIST Webbook
tb	349.85 ± 0.30	K	NIST Webbook
tb	349.85 ± 0.30	K	NIST Webbook
tb	348.70 ± 0.30	K	NIST Webbook
tb	350.00 ± 0.50	K	NIST Webbook
tb	349.84 ± 0.10	K	NIST Webbook
tb	349.00	K	NIST Webbook
tc	556.60	K	KDB
tc	558.35 ± 5.00	K	NIST Webbook
tc	556.30 ± 0.20	K	NIST Webbook
tc	556.40	K	NIST Webbook
tc	556.36 ± 0.20	K	NIST Webbook
tf	250.30 ± 0.50	K	NIST Webbook
tf	250.16 ± 0.05	K	NIST Webbook
tf	250.45 ± 0.20	K	NIST Webbook
tf	251.35 ± 0.50	K	NIST Webbook
tf	250.50 ± 0.30	K	NIST Webbook
tf	250.00 ± 1.50	K	NIST Webbook
tf	250.00 ± 1.50	K	NIST Webbook
tf	250.28 ± 0.05	K	NIST Webbook
tf	250.31 ± 0.02	K	NIST Webbook
tf	250.28 ± 0.02	K	NIST Webbook
tf	250.30 ± 0.15	K	NIST Webbook
tf	250.20 ± 0.02	K	NIST Webbook
tf	250.18 ± 0.02	K	NIST Webbook
tf	250.18 ± 0.05	K	NIST Webbook
tf	250.18 ± 0.02	K	NIST Webbook
tf	250.17 ± 0.01	K	NIST Webbook
tf	245.40 ± 1.00	K	NIST Webbook
tf	249.92 ± 0.40	K	NIST Webbook
tf	250.01 ± 0.40	K	NIST Webbook
tf	250.10 ± 0.50	K	NIST Webbook

tf	250.20 ± 0.20	K	NIST Webbook
tf	248.45 ± 0.20	K	NIST Webbook
tf	250.16	K	Aqueous Solubility Prediction Method
tf	250.25 ± 0.20	K	NIST Webbook
tf	250.40 ± 0.04	K	NIST Webbook
tf	250.36 ± 0.06	K	NIST Webbook
tf	250.30 ± 0.20	K	NIST Webbook
tf	250.41 ± 0.05	K	NIST Webbook
tf	250.42 ± 0.04	K	NIST Webbook
tf	247.80 ± 1.00	K	NIST Webbook
tf	245.00 ± 1.00	K	NIST Webbook
tf	250.55 ± 0.15	K	NIST Webbook
tf	250.42 ± 0.05	K	NIST Webbook
tf	250.38 ± 0.08	K	NIST Webbook
tf	240.39 ± 0.10	K	NIST Webbook
tf	250.39 ± 0.01	K	NIST Webbook
tf	250.19 ± 0.20	K	NIST Webbook
tf	250.26 ± 0.05	K	NIST Webbook
tf	250.00	K	KDB
tt	250.37 ± 0.20	K	NIST Webbook
tt	250.30 ± 0.15	K	NIST Webbook
tt	250.20 ± 0.20	K	NIST Webbook
tt	245.70 ± 0.02	K	NIST Webbook
tt	250.28 ± 0.02	K	NIST Webbook
tt	250.25 ± 0.10	K	NIST Webbook
tt	226.10	K	Solid binary mixtures of neopentanol with tert-Butyl chloride and carbon tetrachloride studied by thermal, X-ray and dielectric techniques
tt	249.00 ± 1.00	K	NIST Webbook
vc	0.276	m3/kmol	KDB
zc	0.2693290		KDB
zra	0.27		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	91.69	J/mol×K	405.08	Joback Method
cpg	94.22	J/mol×K	441.39	Joback Method
cpg	96.39	J/mol×K	477.70	Joback Method

cpg	98.21	J/mol×K	514.01	Joback Method
cpg	99.73	J/mol×K	550.32	Joback Method
cpg	88.75	J/mol×K	368.77	Joback Method
cpg	100.97	J/mol×K	586.63	Joback Method
cpl	131.66	J/mol×K	293.15	NIST Webbook
cpl	133.10	J/mol×K	298.00	NIST Webbook
cpl	132.63	J/mol×K	298.10	NIST Webbook
cpl	133.10	J/mol×K	301.20	NIST Webbook
cpl	132.20	J/mol×K	298.10	NIST Webbook
cpl	131.67	J/mol×K	298.15	NIST Webbook
cpl	128.80	J/mol×K	298.00	NIST Webbook
cpl	132.59	J/mol×K	298.00	NIST Webbook
cpl	130.90	J/mol×K	300.00	NIST Webbook
cpl	131.50	J/mol×K	293.00	NIST Webbook
cpl	131.00	J/mol×K	298.00	NIST Webbook
cpl	131.80	J/mol×K	256.10	NIST Webbook
cpl	130.80	J/mol×K	298.15	NIST Webbook
cpl	133.00	J/mol×K	298.00	NIST Webbook
cpl	131.90	J/mol×K	298.15	NIST Webbook
cpl	131.40	J/mol×K	298.15	NIST Webbook
cpl	131.36	J/mol×K	298.15	NIST Webbook
cpl	131.40	J/mol×K	298.15	NIST Webbook
cpl	131.57	J/mol×K	298.15	NIST Webbook
cpl	131.36	J/mol×K	298.15	NIST Webbook
cpl	131.60	J/mol×K	298.15	NIST Webbook
cpl	129.80	J/mol×K	293.15	NIST Webbook
cpl	131.34	J/mol×K	298.15	NIST Webbook
cpl	132.90	J/mol×K	298.15	NIST Webbook
cpl	133.00	J/mol×K	298.15	NIST Webbook
cpl	133.35	J/mol×K	298.15	NIST Webbook
cpl	131.30	J/mol×K	298.15	NIST Webbook
cpl	126.40	J/mol×K	288.30	NIST Webbook
cpl	130.50	J/mol×K	298.10	NIST Webbook
cpl	128.00	J/mol×K	293.20	NIST Webbook
cpl	128.90	J/mol×K	303.00	NIST Webbook
cpl	133.90	J/mol×K	290.00	NIST Webbook
cpl	131.40	J/mol×K	298.15	NIST Webbook
cpl	126.40	J/mol×K	288.30	NIST Webbook
cpl	130.50	J/mol×K	303.30	NIST Webbook
cps	44.22	J/mol×K	46.00	NIST Webbook

dvisc	0.0008307	Pa×s	308.15	Viscosities and Densities of Binary Mixtures of 1,4-Dioxane, Carbon Tetrachloride, and Butanol at 303.15 K, 308.15 K, and 313.15 K
dvisc	0.0008072	Pa×s	313.15	Viscosities and Densities of Binary Mixtures of 1,4-Dioxane, Carbon Tetrachloride, and Butanol at 303.15 K, 308.15 K, and 313.15 K
dvisc	0.0008070	Pa×s	313.15	Viscosities and Densities of Binary Mixtures of 1,4-Dioxane, Carbon Tetrachloride, and Butanol at 303.15 K, 308.15 K, and 313.15 K
dvisc	0.0008520	Pa×s	303.15	Studies of viscosities of dilute solutions of alkylamine in non-electrolyte solvents. II. Haloalkanes and other polar solvents
dvisc	0.0007600	Pa×s	313.15	Studies of viscosities of dilute solutions of alkylamine in non-electrolyte solvents. II. Haloalkanes and other polar solvents
dvisc	0.0008689	Pa×s	303.15	Viscosities and Densities of Binary Mixtures of 1,4-Dioxane, Carbon Tetrachloride, and Butanol at 303.15 K, 308.15 K, and 313.15 K
hfust	2.69	kJ/mol	249.00	NIST Webbook
hfust	2.56	kJ/mol	250.50	NIST Webbook
hfust	4.63	kJ/mol	225.70	NIST Webbook
hfust	4.58	kJ/mol	225.40	NIST Webbook
hfust	2.69	kJ/mol	249.00	NIST Webbook
hfust	4.60	kJ/mol	224.60	NIST Webbook
hfust	2.52	kJ/mol	250.30	NIST Webbook

hsubt	43.30	kJ/mol	226.00	NIST Webbook
hsubt	38.80	kJ/mol	217.00	NIST Webbook
hsubt	37.90	kJ/mol	237.50	NIST Webbook
hvapt	30.60	kJ/mol	524.50	NIST Webbook
hvapt	30.00	kJ/mol	349.80	KDB
hvapt	29.82	kJ/mol	349.90	NIST Webbook
hvapt	29.20	kJ/mol	454.50	NIST Webbook
hvapt	33.70	kJ/mol	305.50	NIST Webbook
hvapt	31.70	kJ/mol	325.50	NIST Webbook
hvapt	32.30	kJ/mol	322.00	NIST Webbook
hvapt	30.40	kJ/mol	382.50	NIST Webbook
pvap	15.22	kPa	298.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures
pvap	9.60	kPa	288.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures
pvap	7.51	kPa	283.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures
pvap	18.98	kPa	303.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures

pvap	23.36	kPa	308.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures
pvap	28.53	kPa	313.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures
pvap	34.59	kPa	318.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures
pvap	53.33	kPa	330.08	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
pvap	41.68	kPa	323.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures

pvap	18.83	kPa	303.15	Total Vapor Pressure Measurements for 2-Ethoxyethanol with Carbon Tetrachloride, Chloroform, and Dichloromethane at 303.15 K
pvap	93.32	kPa	347.09	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
pvap	79.99	kPa	342.21	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
pvap	66.66	kPa	336.65	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
pvap	40.00	kPa	322.04	Determination and correlation of vapor liquid equilibrium for binary systems consisting of close-boiling components
pvap	12.14	kPa	293.15	Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures
rfi	1.45740		298.15	Activity coefficients in binary mixtures formed by cyclohexanone with a variety of compounds at 94.7 kPa

rfi	1.45980		298.10	Excess Enthalpies and Thermal Conductivity Coefficients for Binary Mixtures of Carbon Tetrachloride and Four Alkanes (C5 to C8) at a Temperature of 298.15 K
rfi	1.45550		303.15	Densities, speeds of sound, isentropic compressibilities, refractive indexes, and viscosities of tetrahydrofuran with haloalkane or alkyl ethanoate at T = 303.15 K
rhol	1584.30	kg/m3	298.15	Calorimetric Study of Nitrile Group-Solvent Interactions and Comparison with Dispersive Quasi-Chemical (DISQUAC) Predictions
rhol	1583.80	kg/m3	298.15	Excess Molar volumes and Surface Tensions of Trimethylbenzene with Tetrahydrofuran Tetrachloromethane and Dimethylsulfoxide at 298.15 K
rhol	1584.00	kg/m3	298.00	KDB
rhol	1575.00	kg/m3	303.15	Viscosity and Density for Binary Mixtures of Carbon Tetrachloride + Chloroform, Carbon Tetrachloride + Dichloromethane, and Chloroform + Dichloromethane and One Ternary Mixture of Chloroform + 1:1 (Carbon Tetrachloride + Dichloromethane) at 303.15 K
sfust	10.82	J/mol×K	249.00	NIST Webbook

sfust	20.30	J/mol×K	225.40	NIST Webbook
sfust	10.10	J/mol×K	250.30	NIST Webbook
sfust	20.50	J/mol×K	225.70	NIST Webbook
sfust	10.20	J/mol×K	250.50	NIST Webbook
sfust	20.49	J/mol×K	224.60	NIST Webbook
speedsl	927.00	m/s	298.00	Ultrasonic velocity, viscosity and excess properties of binary mixture of tetrahydrofuran with 1-propanol and 2-propanol
speedsl	921.70	m/s	298.15	Sound speed and density measurements for tetra-n-butylammonium bromide in benzene and carbon tetrachloride solutions at T = 298.15 K
speedsl	921.50	m/s	298.15	Compressibility studies of aqueous and CCl4 solutions of 18-crown-6 at T = 298.15 K
speedsl	904.00	m/s	313.00	Ultrasonic velocity, viscosity and excess properties of binary mixture of tetrahydrofuran with 1-propanol and 2-propanol
speedsl	919.50	m/s	303.00	Ultrasonic velocity, viscosity and excess properties of binary mixture of tetrahydrofuran with 1-propanol and 2-propanol
speedsl	932.00	m/s	293.00	Ultrasonic velocity, viscosity and excess properties of binary mixture of tetrahydrofuran with 1-propanol and 2-propanol
srf	0.03	N/m	298.20	KDB

srf	0.02	N/m	298.15	Surface and bulk behavior of (dialkylsulfoxides + carbon tetrachloride) mixtures
srf	0.02	N/m	303.15	Surface and bulk behavior of (dialkylsulfoxides + carbon tetrachloride) mixtures
srf	0.02	N/m	308.15	Surface and bulk behavior of (dialkylsulfoxides + carbon tetrachloride) mixtures
srf	0.02	N/m	313.15	Surface and bulk behavior of (dialkylsulfoxides + carbon tetrachloride) mixtures

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.41285e+01
Coeff. B	-2.94375e+03
Coeff. C	-4.02620e+01
Temperature range (K), min.	250.33
Temperature range (K), max.	556.35

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	7.49948e+01
Coeff. B	-6.26338e+03
Coeff. C	-9.11397e+00
Coeff. D	7.41145e-06
Temperature range (K), min.	250.00
Temperature range (K), max.	556.35

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
303.15	101.30	0.0008440

Reference *https://www.doi.org/10.1016/j.tca.2004.07.014*

Speed of sound, m/s

Temperature, K - Liquid	Pressure, kPa - Liquid	Speed of sound, m/s - Liquid
283.15	101.00	969.1
283.15	497.00	970.5
283.15	1065.00	972.7
283.15	2192.00	976.9
283.15	2306.00	977.4
283.15	3433.00	981.6
283.15	5102.00	987.7
283.15	5958.00	990.8
283.15	7972.00	998.0
283.15	8771.00	1000.6
283.15	9833.00	1004.6
283.15	11260.00	1009.5
283.15	12970.00	1015.5
283.15	13650.00	1017.6
283.15	16043.00	1026.0
283.15	19058.00	1035.9
283.15	22343.00	1046.6
283.15	25816.00	1057.5
283.15	30453.00	1071.7
298.15	101.00	921.1
298.15	583.00	923.1
298.15	865.00	924.2
298.15	887.00	924.4
298.15	1384.00	926.4
298.15	1731.00	927.8

298.15	1900.00	928.4
298.15	2056.00	929.1
298.15	2905.00	932.5
298.15	3020.00	933.0
298.15	3919.00	936.6
298.15	4367.00	938.4
298.15	4908.00	940.5
298.15	5436.00	942.6
298.15	5946.00	944.5
298.15	6868.00	948.0
298.15	7358.00	949.9
298.15	7761.00	951.5
298.15	8818.00	955.5
298.15	8930.00	955.9
298.15	9903.00	959.6
298.15	10321.00	961.2
298.15	11239.00	964.6
298.15	12541.00	969.3
298.15	13397.00	972.5
298.15	14945.00	978.0
298.15	15313.00	979.4
298.15	17404.00	986.8
298.15	17674.00	987.8
298.15	20253.00	996.7
298.15	20404.00	997.2
298.15	22533.00	1004.5
298.15	24855.00	1012.3
298.15	24984.00	1012.8
298.15	25186.00	1013.4
298.15	27693.00	1021.7
298.15	29953.00	1029.0
298.15	30569.00	1030.8
298.15	101.00	921.1
313.15	101.00	874.2
313.15	108.00	874.2
313.15	478.00	875.9
313.15	894.00	877.7
313.15	1827.00	881.9
313.15	2938.00	886.7
313.15	4119.00	891.6
313.15	5135.00	896.1
313.15	5591.00	898.0
313.15	6975.00	903.6
313.15	8334.00	909.4

313.15	10049.00	916.2
313.15	12992.00	927.9
313.15	14421.00	933.4
313.15	16421.00	941.1
313.15	18812.00	949.9
313.15	20514.00	956.3
313.15	25209.00	972.9
313.15	31645.00	994.8
333.15	101.00	813.0
333.15	967.00	817.4
333.15	1691.00	820.9
333.15	2195.00	823.4
333.15	3177.00	828.1
333.15	5118.00	837.4
333.15	5595.00	839.5
333.15	7312.00	847.3
333.15	8236.00	851.5
333.15	9201.00	855.8
333.15	10593.00	862.0
333.15	11851.00	867.4
333.15	13131.00	872.9
333.15	14740.00	879.6
333.15	15989.00	884.8
333.15	17758.00	892.1
333.15	19476.00	898.9
333.15	20905.00	904.6
333.15	22422.00	910.5
333.15	25433.00	922.0
333.15	27880.00	931.1
333.15	31372.00	943.7

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Viscosity and Density for Binary Mixtures of Carbon Tetrachloride + Chloroform, Carbon Tetrachloride + Dichloromethane, and Chloroform + Dichloromethane and One Ternary Mixture (Chloroform + 1:1 (Carbon Tetrachloride + Dichloromethane)) at 298.15 K:	https://www.doi.org/10.1021/je020067x
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Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
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Legend

af:	Acentric Factor
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
cps:	Solid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
ea:	Electron affinity
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
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
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter