

Trichloroethylene

Other names:	1,1,2-Trichloroethene
	1,1,2-Trichloroethylene
	1,1-Dichloro-2-chloroethylene
	1,2,2-Trichloroethylene
	1-Chloro-2,2-dichloroethylene
	Acetylene trichloride
	Algylen
	Anamenth
	Benzinol
	Blacosolv
	Blancosolv
	C ₂ HCl ₃
	CHLORYLEN
	Cecolene
	Chlorilen
	Chlorylea
	Chorylen
	Circosolv
	Crawhaspol
	Densinfluat
	Distillex DS2
	Dow-tri
	Dukeron
	Ethene, 1,1,2-trichloro-
	Ethene, trichloro-
	Ethynyl trichloride
	Ethylene trichloride
	Ethylene, trichloro-
	FLUATE
	Fleck-flip
	Flock FLIP
	Gemalgene
	Germalgene
	Lanadin
	Lethurin
	NCI-C04546
	Narcogen
	Narkogen
	Narkosoid
	Nialk

Perm-A-chlor
Perm-A-clor
Petzinol
Philex
R 1120
RCRA Waste number U228
TCE
TRICHLOROETHENE
Threthylen
Threthylene
Trethylene
Tri
Tri-Clene
Tri-plus
Tri-plus M
Triad
Trial
Triasol
Trichlooretheen
Trichloorethyleen, tri
Trichloraethen
Trichloraethylen, tri
Trichloran
Trichloren
Trichlorethene
Trichlorethylene
Trichlorethylene, tri
Tricloretene
Tricloroetilene
Trielene
Trielin
Trielina
Trieline
Triklone
Triklone N
Trilen
Trilene
Triline
Trimar
Triol
UN 1710
Vestrol
Vitran

Westrosol

Inchi: InChI=1S/C2HCl3/c3-1-2(4)5/h1H

InchiKey: XSTXAVWGXDKEL-UHFFFAOYSA-N

Formula: C2HCl3

SMILES: ClC=C(Cl)Cl

Mol. weight [g/mol]: 131.39

CAS: 79-01-6

Physical Properties

Property code	Value	Unit	Source
af	0.2130		KDB
chl	-956.50 ± 8.40	kJ/mol	NIST Webbook
chl	-947.70 ± 2.90	kJ/mol	NIST Webbook
dm	0.90	debye	KDB
dvisc	0.0005510	Pa×s	Densities and Viscosities of Binary Liquid Mixtures of Trichloroethylene and Tetrachloroethylene with Some Polar and Nonpolar Solvents
ea	0.30	eV	NIST Webbook
ea	0.40 ± 0.22	eV	NIST Webbook
gf	19.89	kJ/mol	KDB
gyrad	3.7590		KDB
hf	-19.10 ± 3.00	kJ/mol	NIST Webbook
hf	-5.90	kJ/mol	NIST Webbook
hf	-5.86	kJ/mol	KDB
hf	-18.00 ± 2.00	kJ/mol	NIST Webbook
hfl	-41.00	kJ/mol	NIST Webbook
hfl	-53.10 ± 3.00	kJ/mol	NIST Webbook
hfl	-52.00 ± 3.00	kJ/mol	NIST Webbook
hfus	12.42	kJ/mol	Joback Method
hvap	34.70 ± 0.42	kJ/mol	NIST Webbook
hvap	34.50 ± 0.10	kJ/mol	NIST Webbook
hvap	34.57 ± 0.09	kJ/mol	NIST Webbook
hvap	34.62	kJ/mol	NIST Webbook
hvap	33.97 ± 0.13	kJ/mol	NIST Webbook
ie	9.45	eV	NIST Webbook
ie	9.46 ± 0.02	eV	NIST Webbook
ie	9.47 ± 0.01	eV	NIST Webbook
ie	9.68	eV	NIST Webbook
ie	9.48	eV	NIST Webbook

ie	9.45 ± 0.01	eV	NIST Webbook
ie	9.60	eV	NIST Webbook
log10ws	-1.95		Aqueous Solubility Prediction Method
log10ws	-1.96		Estimated Solubility Method
logp	2.502		Crippen Method
mcvol	71.460	ml/mol	McGowan Method
nfpaf	%!d(float64=1)		KDB
nfpah	%!d(float64=2)		KDB
nfpas	%!d(float64=1)		KDB
pc	5020.00	kPa	KDB
rinpol	686.00		NIST Webbook
rinpol	693.00		NIST Webbook
rinpol	702.00		NIST Webbook
rinpol	690.00		NIST Webbook
rinpol	686.00		NIST Webbook
rinpol	722.00		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	686.00		NIST Webbook
rinpol	673.00		NIST Webbook
rinpol	680.00		NIST Webbook
rinpol	691.00		NIST Webbook
rinpol	680.00		NIST Webbook
rinpol	680.00		NIST Webbook
rinpol	701.00		NIST Webbook
rinpol	694.00		NIST Webbook
rinpol	689.00		NIST Webbook
rinpol	681.00		NIST Webbook
rinpol	710.00		NIST Webbook
rinpol	683.00		NIST Webbook
rinpol	690.00		NIST Webbook
rinpol	691.00		NIST Webbook
rinpol	691.00		NIST Webbook
rinpol	702.00		NIST Webbook
rinpol	683.00		NIST Webbook
rinpol	702.10		NIST Webbook
rinpol	703.00		NIST Webbook
rinpol	693.00		NIST Webbook
rinpol	690.00		NIST Webbook
rinpol	698.00		NIST Webbook
rinpol	710.00		NIST Webbook
rinpol	686.00		NIST Webbook
rinpol	691.00		NIST Webbook
rinpol	691.00		NIST Webbook

rinpol	702.00		NIST Webbook
rinpol	696.00		NIST Webbook
rinpol	675.00		NIST Webbook
rinpol	688.00		NIST Webbook
rinpol	691.00		NIST Webbook
rinpol	702.00		NIST Webbook
rinpol	681.00		NIST Webbook
rinpol	701.00		NIST Webbook
rinpol	681.00		NIST Webbook
rinpol	689.00		NIST Webbook
rinpol	691.00		NIST Webbook
rinpol	710.00		NIST Webbook
rinpol	686.00		NIST Webbook
rinpol	700.00		NIST Webbook
rinpol	680.00		NIST Webbook
rinpol	694.00		NIST Webbook
rinpol	687.00		NIST Webbook
ripol	1007.14		NIST Webbook
ripol	1010.00		NIST Webbook
ripol	1010.00		NIST Webbook
ripol	1010.00		NIST Webbook
ripol	993.00		NIST Webbook
ripol	999.00		NIST Webbook
ripol	984.00		NIST Webbook
ripol	970.00		NIST Webbook
ripol	993.00		NIST Webbook
ripol	1028.00		NIST Webbook
ripol	1007.14		NIST Webbook
ripol	1028.00		NIST Webbook
ripol	964.00		NIST Webbook
ripol	970.00		NIST Webbook
ripol	964.00		NIST Webbook
ripol	993.00		NIST Webbook
ripol	1010.00		NIST Webbook
ripol	1008.00		NIST Webbook
ripol	1008.00		NIST Webbook
ripol	1019.00		NIST Webbook
ripol	1010.00		NIST Webbook
ripol	999.00		NIST Webbook
ripol	1010.70		NIST Webbook
ripol	1012.45		NIST Webbook
ripol	993.00		NIST Webbook
tb	360.36	K	KDB

tb	360.40	K	Excess volumes and speeds of sound of mixtures of 1,2-dibromoethane with chlorinated ethanes and ethenes at 303.15 K
tb	360.25	K	Excess molar enthalpies of dimethylsulfoxide with chloroethanes and chloroethenes at 298.15K
tb	360.25	K	Vapor-Liquid Equilibria and Excess Molar Enthalpies for N-Methyl-2-pyrrolidone with Chloroethanes and Chloroethenes
tb	360.25	K	Isobaric Vapor Liquid Equilibrium for Dimethylsulfoxide with Chloroethanes and Chloroethenes
tb	360.40 ± 0.30	K	NIST Webbook
tb	360.55 ± 0.40	K	NIST Webbook
tb	360.20 ± 0.40	K	NIST Webbook
tb	360.20	K	NIST Webbook
tb	360.00 ± 0.40	K	NIST Webbook
tb	360.22 ± 0.30	K	NIST Webbook
tb	360.05 ± 0.20	K	NIST Webbook
tb	360.05 ± 0.30	K	NIST Webbook
tb	360.10 ± 0.50	K	NIST Webbook
tb	360.10 ± 0.50	K	NIST Webbook
tb	360.25 ± 0.30	K	NIST Webbook
tb	360.40 ± 0.70	K	NIST Webbook
tb	360.40	K	NIST Webbook
tc	571.00	K	NIST Webbook
tc	544.20	K	KDB
tf	188.35 ± 0.30	K	NIST Webbook
tf	188.50 ± 0.20	K	NIST Webbook
tf	188.40	K	KDB
tf	188.25	K	Aqueous Solubility Prediction Method
vc	0.256	m3/kmol	KDB
zc	0.2840200		KDB
zra	0.27		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	95.95	J/mol×K	500.02	Joback Method
cpg	100.24	J/mol×K	569.29	Joback Method
cpg	98.20	J/mol×K	534.65	Joback Method
cpg	93.46	J/mol×K	465.39	Joback Method
cpg	90.70	J/mol×K	430.76	Joback Method
cpg	87.67	J/mol×K	396.12	Joback Method
cpg	84.33	J/mol×K	361.49	Joback Method
cpl	128.38	J/mol×K	286.17	Heat capacities of selected chlorohydrocarbons
cpl	130.29	J/mol×K	309.14	Heat capacities of selected chlorohydrocarbons
cpl	129.04	J/mol×K	309.14	Heat capacities of selected chlorohydrocarbons
cpl	129.21	J/mol×K	309.14	Heat capacities of selected chlorohydrocarbons
cpl	128.96	J/mol×K	301.48	Heat capacities of selected chlorohydrocarbons
cpl	128.54	J/mol×K	301.48	Heat capacities of selected chlorohydrocarbons
cpl	128.79	J/mol×K	301.48	Heat capacities of selected chlorohydrocarbons
cpl	128.96	J/mol×K	296.38	Heat capacities of selected chlorohydrocarbons
cpl	128.46	J/mol×K	296.38	Heat capacities of selected chlorohydrocarbons
cpl	128.38	J/mol×K	296.38	Heat capacities of selected chlorohydrocarbons
cpl	128.54	J/mol×K	296.38	Heat capacities of selected chlorohydrocarbons
cpl	128.46	J/mol×K	291.27	Heat capacities of selected chlorohydrocarbons
cpl	128.29	J/mol×K	291.27	Heat capacities of selected chlorohydrocarbons
cpl	130.29	J/mol×K	319.35	Heat capacities of selected chlorohydrocarbons
cpl	128.21	J/mol×K	291.27	Heat capacities of selected chlorohydrocarbons

cpl	130.29	J/mol×K	319.35	Heat capacities of selected chlorohydrocarbons
cpl	131.12	J/mol×K	319.35	Heat capacities of selected chlorohydrocarbons
cpl	130.95	J/mol×K	329.56	Heat capacities of selected chlorohydrocarbons
cpl	131.12	J/mol×K	329.56	Heat capacities of selected chlorohydrocarbons
cpl	128.38	J/mol×K	291.27	Heat capacities of selected chlorohydrocarbons
cpl	120.10	J/mol×K	298.00	NIST Webbook
cpl	124.70	J/mol×K	298.00	NIST Webbook
cpl	126.71	J/mol×K	260.64	Heat capacities of selected chlorohydrocarbons
cpl	126.63	J/mol×K	260.64	Heat capacities of selected chlorohydrocarbons
cpl	126.63	J/mol×K	260.64	Heat capacities of selected chlorohydrocarbons
cpl	126.63	J/mol×K	260.64	Heat capacities of selected chlorohydrocarbons
cpl	126.71	J/mol×K	265.75	Heat capacities of selected chlorohydrocarbons
cpl	126.80	J/mol×K	265.75	Heat capacities of selected chlorohydrocarbons
cpl	126.71	J/mol×K	265.75	Heat capacities of selected chlorohydrocarbons
cpl	126.96	J/mol×K	265.75	Heat capacities of selected chlorohydrocarbons
cpl	126.71	J/mol×K	270.85	Heat capacities of selected chlorohydrocarbons
cpl	126.96	J/mol×K	270.85	Heat capacities of selected chlorohydrocarbons
cpl	126.63	J/mol×K	270.85	Heat capacities of selected chlorohydrocarbons
cpl	127.04	J/mol×K	270.85	Heat capacities of selected chlorohydrocarbons
cpl	127.13	J/mol×K	275.96	Heat capacities of selected chlorohydrocarbons

cpl	127.04	J/mol×K	275.96	Heat capacities of selected chlorohydrocarbons
cpl	126.96	J/mol×K	275.96	Heat capacities of selected chlorohydrocarbons
cpl	127.38	J/mol×K	275.96	Heat capacities of selected chlorohydrocarbons
cpl	127.38	J/mol×K	281.06	Heat capacities of selected chlorohydrocarbons
cpl	127.38	J/mol×K	281.06	Heat capacities of selected chlorohydrocarbons
cpl	127.46	J/mol×K	281.06	Heat capacities of selected chlorohydrocarbons
cpl	127.79	J/mol×K	281.06	Heat capacities of selected chlorohydrocarbons
cpl	127.96	J/mol×K	286.17	Heat capacities of selected chlorohydrocarbons
cpl	127.96	J/mol×K	286.17	Heat capacities of selected chlorohydrocarbons
cpl	127.88	J/mol×K	286.17	Heat capacities of selected chlorohydrocarbons
cpl	129.04	J/mol×K	301.48	Heat capacities of selected chlorohydrocarbons
hfust	8.45	kJ/mol	188.50	NIST Webbook
hfust	8.45	kJ/mol	188.50	NIST Webbook
hfust	8.45	kJ/mol	188.50	NIST Webbook
hvapt	36.20	kJ/mol	324.50	NIST Webbook
hvapt	34.20	kJ/mol	328.50	NIST Webbook
hvapt	31.40	kJ/mol	360.40	NIST Webbook
hvapt	31.38	kJ/mol	361.20	KDB
hvapt	32.13	kJ/mol	360.19	NIST Webbook
hvapt	34.60	kJ/mol	354.00	NIST Webbook
hvapt	35.60	kJ/mol	329.00	NIST Webbook
rfi	1.46980		308.15	Density, Viscosity, Refractive Index, and Speed of Sound for Binary Mixtures of 1,4-Dioxane with Different Organic Liquids at (298.15, 303.15, and 308.15) K

rfi	1.47500	298.15	Densities, Excess Molar Volumes, Viscosity, and Refractive Indices of Binary Mixtures of Ethanoic Acid and Trichloroethylene with Dimethylbenzenes at Different Temperatures
rfi	1.47290	303.15	Density, Viscosity, Refractive Index, and Speed of Sound for Binary Mixtures of 1,4-Dioxane with Different Organic Liquids at (298.15, 303.15, and 308.15) K
rfi	1.47500	303.15	Vapor-Liquid Equilibria of Binary Mixtures Formed by Hexan-1-ol with Chloroethanes and Chloroethenes at 95.6 kPa
rfi	1.46900	308.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Tri-n-butylamine + Triethylamine, + Tetrahydrofuran, + Tetradecane, + Tetrachloroethylene, + Pyridine, or + Trichloroethylene at (298.15, 303.15, and 308.15) K

rfi	1.47220	303.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Tri-n-butylamine + Triethylamine, + Tetrahydrofuran, + Tetradecane, + Tetrachloroethylene, + Pyridine, or + Trichloroethylene at (298.15, 303.15, and 308.15) K
rfi	1.47520	298.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Tri-n-butylamine + Triethylamine, + Tetrahydrofuran, + Tetradecane, + Tetrachloroethylene, + Pyridine, or + Trichloroethylene at (298.15, 303.15, and 308.15) K
rfi	1.47500	298.15	Bubble-Temperature Measurements on Some Binary Mixtures Formed by Tetrahydrofuran or Amyl Alcohol with Hydrocarbons, Chlorohydrocarbons, or Butanols at (94.6 or 95.8) kPa
rfi	1.47820	298.15	Bubble Temperature Measurements on the Binary Mixtures of n-Heptane or Nitrobenzene or Chlorobenzene with Some Chloroethanes and Chloroethylenes at (94.6 to 95.8) kPa

rfi	1.47820		298.15	Activity coefficients and excess Gibbs free energy of some binary mixtures formed by p-cresol at 95.23 kPa
rfi	1.47820		298.15	Bubble points of the binary mixtures formed by ethylbenzene with some chloroaliphatics and substituted benzenes at p = 94.7 kPa
rfi	1.47820		293.15	Excess Gibbs energies of selected binary mixtures formed by N,N-dimethyl formamide at 95.5 kPa
rfi	1.47600		298.15	Density, Viscosity, Refractive Index, and Speed of Sound for Binary Mixtures of 1,4-Dioxane with Different Organic Liquids at (298.15, 303.15, and 308.15) K
rfi	1.47820		293.15	Bubble points of some binary mixtures formed by o-cresol at 95.75 kPa
rhoI	1462.00	kg/m3	293.00	KDB
rhoI	1450.90	kg/m3	303.15	Excess Volumes and Excess Isentropic Compressibilities of Binary Liquid Mixtures of Trichloroethylene with Esters at 303.15 K

rhoI	1455.90	kg/m3	298.15	Excess Molar Volumes and Sound Speed in (Phenylacetonitrile + 1,2-Dichloroethane), (Phenylacetonitrile + 1,1,2-Trichloroethane), (Phenylacetonitrile + 1,1,2,2-Tetrachloroethane), (Phenylacetonitrile + Trichloroethene), and (Phenylacetonitrile + Tetrachloroethene) at Temperatures of (303.15, 308.15, and 313.15) K
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rhoI	1447.50	kg/m3	303.15	Excess Molar Volumes and Sound Speed in (Phenylacetonitrile + 1,2-Dichloroethane), (Phenylacetonitrile + 1,1,2-Trichloroethane), (Phenylacetonitrile + 1,1,2,2-Tetrachloroethane), (Phenylacetonitrile + Trichloroethene), and (Phenylacetonitrile + Tetrachloroethene) at Temperatures of (303.15, 308.15, and 313.15) K
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rhoI	1437.80	kg/m3	308.15	Excess Molar Volumes and Sound Speed in (Phenylacetonitrile + 1,2-Dichloroethane), (Phenylacetonitrile + 1,1,2-Trichloroethane), (Phenylacetonitrile + 1,1,2,2-Tetrachloroethane), (Phenylacetonitrile + Trichloroethene), and (Phenylacetonitrile + Tetrachloroethene) at Temperatures of (303.15, 308.15, and 313.15) K
rhoI	1430.40	kg/m3	313.15	Excess Molar Volumes and Sound Speed in (Phenylacetonitrile + 1,2-Dichloroethane), (Phenylacetonitrile + 1,1,2-Trichloroethane), (Phenylacetonitrile + 1,1,2,2-Tetrachloroethane), (Phenylacetonitrile + Trichloroethene), and (Phenylacetonitrile + Tetrachloroethene) at Temperatures of (303.15, 308.15, and 313.15) K
sfust	44.80	J/mol×K	188.50	NIST Webbook
srf	0.03	N/m	293.20	KDB

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.38164e+01
Coeff. B	-2.66405e+03

KDB:

<https://www.chemic.org/files/research/kdb/mol/mol1719.mol>

Aqueous Solubility Prediction Method:

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

Excess Gibbs energies of selected binary mixtures formed by non-hydrocarbon compounds at 101.325 kPa: Mixtures Formed by Hexan-1-ol with Other Members of the *n*-Alkanes at Constant Temperatures Using Internal Standards with the Vapor-Liquid Equilibrium and the Vapor-Liquid Equilibrium with Dimethylsulfoxide with Chloroethanes and Chloroethenes:

<https://www.doi.org/10.1016/j.fluid.2006.08.018>

<https://www.doi.org/10.1021/je9000608>

<https://www.doi.org/10.1021/je3010535>

<https://www.doi.org/10.1021/je700408x>

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

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

The Yaws Handbook of Vapor Pressure:
Activity Coefficients at Infinite Dilution in Methylimidazolium Nitrate Ionic Liquids
Solubilities of Stearic Acid in Organic Solvents and in Azeotropic Solvent Mixtures
Solubilities of Palmitic Acid in Pure Solvents and Its Mixtures:
Using binary mixtures of dicationic ionic liquids for determination of activity coefficients at infinite dilution
Systems of 1,1,1,3,3,3-hexafluoro-2,2-bis(4-methylphenyl)ethane and furan + butane solvents at 298.15 K
Binary mixtures formed by o-cresol at 95.75 kPa: Bubble points of the binary mixtures formed by ethylbenzene with some aromatic hydrocarbons and excess free energy of some binary mixtures
Density, process volume, viscosity, Viscosity, and Refractive Indices of Binary Mixtures of Ethanoic Acid and Tri-n-Propylamine
Trichloroethylene with Dimethylbenzenes at Different

<https://www.sciencedirect.com/book/9780128029992/the-vaws-handbook-of-vapor-pressure>

<https://www.doi.org/10.1021/je100998r>

<https://www.doi.org/10.1021/ie7006567>

<https://www.doi.org/10.1021/ie8005979>

<https://www.doi.org/10.1016/j.fluid.2013.05.038>

<https://www.doi.org/10.1021/je049747l>

<https://www.doi.org/10.1016/j.fluid.2005.09.012>

<https://www.doi.org/10.1016/j.ijct.2005.12.009>

<https://www.doi.org/10.1016/j.ijct.2006.12.017>

<https://www.doi.org/10.1021/je201211f>

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

<http://webbook.nist.gov/cgi/lookup?ID=C79016&Inits=SI>

<https://www.doi.org/10.1021/ie030147a>

<https://www.doi.org/10.1016/j.fluid.2009.11.006>

<https://www.doi.org/10.1031/jo800739v>

<https://www.choric.org/research/kdh/hcnprn/showprn.php?cmprid=1719>

<https://www.doi.org/10.1016/j.ijct.2013.12.009>

<https://www.doi.org/10.1021/jo030141r>

<https://www.ehronic.org/research/kdb/bonpro/chowpro.nbr?ampid=1710>

<https://www.doi.org/10.1016/j.ijet.2006.06.009>

<https://www.doi.org/10.1007/s10365-015-1033-y>

<https://www.doi.org/10.1031/jc050544m>

[illegible]

Legend

af:	Acentric Factor
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
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
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
nfpas:	NFPA Safety 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
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter

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