

Benzene, chloro-

Other names:	Abluton T30
	Benzene chloride
	CP 27
	Chloorbenzeen
	Chlorbenzene
	Chlorbenzol
	Chlorobenzen
	Chlorobenzene
	Chlorobenzene, mono-
	Chlorobenzenu
	Chlorobenzol
	Clorobenzene
	IP Carrier T 40
	MCB
	MONOCHLOROBENZENE
	Monochloorbenzeen
	Monochlorbenzene
	Monochlorbenzol
	Monoclorobenzene
	NCI-C54886
	NSC 8433
	PHENYL CHLORIDE
	Tetrosin SP
	UN 1134
Inchi:	InChI=1S/C6H5Cl/c7-6-4-2-1-3-5-6/h1-5H
InchiKey:	MVPPADPHJFYWMZ-UHFFFAOYSA-N
Formula:	C6H5Cl
SMILES:	Clc1ccccc1
Mol. weight [g/mol]:	112.56
CAS:	108-90-7

Physical Properties

Property code	Value	Unit	Source
af	0.2490		KDB
affp	753.10	kJ/mol	NIST Webbook
aigt	913.15	K	KDB

basg	724.60	kJ/mol	NIST Webbook
chl	-3110.70 ± 1.00	kJ/mol	NIST Webbook
chl	-3108.90 ± 0.79	kJ/mol	NIST Webbook
chl	-3112.70 ± 0.90	kJ/mol	NIST Webbook
chl	-3111.60 ± 8.40	kJ/mol	NIST Webbook
dm	1.60	debye	KDB
fil	1.30	% in Air	KDB
flu	7.10	% in Air	KDB
fpc	309.26	K	KDB
fpo	302.04	K	KDB
gf	99.23	kJ/mol	KDB
gyrad	3.5680		KDB
hf	51.87	kJ/mol	KDB
hf	54.42	kJ/mol	NIST Webbook
hfl	11.50 ± 1.00	kJ/mol	NIST Webbook
hfl	10.70 ± 0.79	kJ/mol	NIST Webbook
hfus	9.53	kJ/mol	Joback Method
hvap	40.30	kJ/mol	NIST Webbook
hvap	36.60 ± 0.04	kJ/mol	NIST Webbook
hvap	40.97 ± 0.06	kJ/mol	NIST Webbook
hvap	41.00 ± 0.10	kJ/mol	NIST Webbook
hvap	41.00	kJ/mol	NIST Webbook
hvap	41.00	kJ/mol	NIST Webbook
hvap	43.90	kJ/mol	NIST Webbook
ie	9.55	eV	NIST Webbook
ie	9.10 ± 0.10	eV	NIST Webbook
ie	8.99	eV	NIST Webbook
ie	9.07	eV	NIST Webbook
ie	9.08 ± 0.01	eV	NIST Webbook
ie	9.04	eV	NIST Webbook
ie	9.05	eV	NIST Webbook
ie	9.07	eV	NIST Webbook
ie	9.09	eV	NIST Webbook
ie	9.08	eV	NIST Webbook
ie	9.07 ± 0.02	eV	NIST Webbook
ie	9.09	eV	NIST Webbook
ie	9.07 ± 0.02	eV	NIST Webbook
ie	9.08	eV	NIST Webbook
ie	9.07	eV	NIST Webbook
ie	9.07 ± 0.03	eV	NIST Webbook
ie	9.10	eV	NIST Webbook
ie	9.10 ± 0.02	eV	NIST Webbook
ie	9.10 ± 0.02	eV	NIST Webbook
ie	9.06 ± 0.01	eV	NIST Webbook

ie	8.80	eV	NIST Webbook
ie	9.07	eV	NIST Webbook
ie	9.07 ± 0.02	eV	NIST Webbook
log10ws	-2.38		Estimated Solubility Method
log10ws	-2.39		Aqueous Solubility Prediction Method
logp	2.340		Crippen Method
mcvol	83.880	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=2)		KDB
pc	4520.00	kPa	KDB
pc	4519.10 ± 30.39	kPa	NIST Webbook
rhoc	364.68 ± 4.50	kg/m3	NIST Webbook
rinpol	820.00		NIST Webbook
rinpol	836.00		NIST Webbook
rinpol	855.00		NIST Webbook
rinpol	844.00		NIST Webbook
rinpol	839.00		NIST Webbook
rinpol	880.00		NIST Webbook
rinpol	824.00		NIST Webbook
rinpol	829.00		NIST Webbook
rinpol	844.00		NIST Webbook
rinpol	839.00		NIST Webbook
rinpol	850.00		NIST Webbook
rinpol	852.00		NIST Webbook
rinpol	850.00		NIST Webbook
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rinpol	834.00		NIST Webbook
rinpol	850.00		NIST Webbook
rinpol	846.00		NIST Webbook
rinpol	842.00		NIST Webbook
rinpol	841.00		NIST Webbook
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rinpol	844.00		NIST Webbook
rinpol	850.00		NIST Webbook
rinpol	880.00		NIST Webbook
rinpol	833.00		NIST Webbook
rinpol	850.00		NIST Webbook
rinpol	828.00		NIST Webbook
rinpol	835.00		NIST Webbook
rinpol	856.00		NIST Webbook
rinpol	852.00		NIST Webbook

rinpol	836.00	NIST Webbook
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rinpol	844.00	NIST Webbook
rinpol	860.00	NIST Webbook
rinpol	877.90	NIST Webbook
rinpol	839.00	NIST Webbook
rinpol	849.00	NIST Webbook
rinpol	859.30	NIST Webbook
rinpol	830.32	NIST Webbook
rinpol	842.00	NIST Webbook
rinpol	815.00	NIST Webbook
rinpol	840.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	860.00	NIST Webbook
rinpol	842.00	NIST Webbook
rinpol	839.00	NIST Webbook
rinpol	834.00	NIST Webbook
rinpol	844.00	NIST Webbook
rinpol	839.00	NIST Webbook
rinpol	839.00	NIST Webbook
rinpol	852.00	NIST Webbook
rinpol	825.00	NIST Webbook
rinpol	830.00	NIST Webbook
rinpol	833.00	NIST Webbook
rinpol	825.30	NIST Webbook
rinpol	840.15	NIST Webbook
rinpol	837.68	NIST Webbook
rinpol	836.42	NIST Webbook
rinpol	826.50	NIST Webbook
rinpol	852.40	NIST Webbook
rinpol	821.20	NIST Webbook
rinpol	860.30	NIST Webbook
rinpol	831.20	NIST Webbook
rinpol	877.90	NIST Webbook
rinpol	833.00	NIST Webbook
rinpol	885.00	NIST Webbook
rinpol	822.00	NIST Webbook
rinpol	817.00	NIST Webbook
rinpol	815.00	NIST Webbook
rinpol	811.00	NIST Webbook
rinpol	822.00	NIST Webbook
rinpol	825.00	NIST Webbook
rinpol	819.00	NIST Webbook

rinpol	834.00	NIST Webbook
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rinpol	849.00	NIST Webbook
rinpol	843.00	NIST Webbook
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rinpol	819.00	NIST Webbook
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rinpol	820.00	NIST Webbook
rinpol	814.00	NIST Webbook
rinpol	827.00	NIST Webbook
rinpol	821.00	NIST Webbook
rinpol	817.00	NIST Webbook
rinpol	830.00	NIST Webbook
rinpol	826.30	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	818.00	NIST Webbook
rinpol	814.00	NIST Webbook
rinpol	838.40	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	852.00	NIST Webbook
rinpol	854.60	NIST Webbook
rinpol	844.00	NIST Webbook
rinpol	838.40	NIST Webbook
rinpol	830.00	NIST Webbook
rinpol	820.00	NIST Webbook
rinpol	844.00	NIST Webbook
rinpol	822.00	NIST Webbook
rinpol	827.00	NIST Webbook
rinpol	825.00	NIST Webbook
rinpol	817.00	NIST Webbook
rinpol	850.00	NIST Webbook
rinpol	841.00	NIST Webbook
rinpol	859.30	NIST Webbook
rinpol	859.00	NIST Webbook
rinpol	853.80	NIST Webbook
rinpol	877.50	NIST Webbook

rinpol	865.00	NIST Webbook
rinpol	830.32	NIST Webbook
rinpol	834.00	NIST Webbook
rinpol	866.47	NIST Webbook
rinpol	850.16	NIST Webbook
rinpol	857.29	NIST Webbook
rinpol	842.00	NIST Webbook
rinpol	850.00	NIST Webbook
rinpol	836.00	NIST Webbook
rinpol	838.80	NIST Webbook
rinpol	827.00	NIST Webbook
rinpol	815.00	NIST Webbook
rinpol	850.30	NIST Webbook
rinpol	864.50	NIST Webbook
rinpol	866.00	NIST Webbook
rinpol	832.00	NIST Webbook
rinpol	840.00	NIST Webbook
rinpol	880.00	NIST Webbook
rinpol	880.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	860.00	NIST Webbook
rinpol	849.60	NIST Webbook
rinpol	852.00	NIST Webbook
rinpol	840.00	NIST Webbook
rinpol	857.40	NIST Webbook
rinpol	860.30	NIST Webbook
rinpol	863.30	NIST Webbook
rinpol	832.00	NIST Webbook
rinpol	830.00	NIST Webbook
ripol	1279.10	NIST Webbook
ripol	1257.10	NIST Webbook
ripol	1257.10	NIST Webbook
ripol	1209.00	NIST Webbook
ripol	1200.00	NIST Webbook
ripol	1241.00	NIST Webbook
ripol	1205.00	NIST Webbook
ripol	1188.00	NIST Webbook
ripol	1209.00	NIST Webbook
ripol	1238.00	NIST Webbook
ripol	1257.00	NIST Webbook
ripol	1238.00	NIST Webbook
ripol	1233.00	NIST Webbook
ripol	1202.00	NIST Webbook

ripol	1234.00		NIST Webbook
ripol	1241.00		NIST Webbook
ripol	1220.51		NIST Webbook
ripol	1226.05		NIST Webbook
ripol	1240.38		NIST Webbook
ripol	1243.90		NIST Webbook
ripol	1213.00		NIST Webbook
ripol	1219.00		NIST Webbook
ripol	1270.00		NIST Webbook
ripol	1270.00		NIST Webbook
ripol	1257.00		NIST Webbook
ripol	1231.00		NIST Webbook
ripol	1257.00		NIST Webbook
ripol	1224.00		NIST Webbook
ripol	1238.00		NIST Webbook
sl	197.50	J/mol×K	NIST Webbook
tb	404.65 ± 0.30	K	NIST Webbook
tb	404.20 ± 1.00	K	NIST Webbook
tb	404.95 ± 0.30	K	NIST Webbook
tb	404.90 ± 0.50	K	NIST Webbook
tb	404.70 ± 0.50	K	NIST Webbook
tb	405.11 ± 0.30	K	NIST Webbook
tb	444.85 ± 0.20	K	NIST Webbook
tb	405.20 ± 0.40	K	NIST Webbook
tb	405.15 ± 1.50	K	NIST Webbook
tb	404.90 ± 0.40	K	NIST Webbook
tb	404.40 ± 0.40	K	NIST Webbook
tb	404.75 ± 0.30	K	NIST Webbook
tb	405.15 ± 0.20	K	NIST Webbook
tb	404.87 ± 0.25	K	NIST Webbook
tb	404.80 ± 0.70	K	NIST Webbook
tb	405.20 ± 0.60	K	NIST Webbook
tb	405.65 ± 0.40	K	NIST Webbook
tb	404.82 ± 0.40	K	NIST Webbook
tb	404.90	K	NIST Webbook
tb	404.15 ± 1.00	K	NIST Webbook
tb	404.95 ± 0.30	K	NIST Webbook
tb	405.20	K	NIST Webbook
tb	404.85 ± 0.40	K	NIST Webbook
tb	404.90 ± 0.50	K	NIST Webbook
tb	404.80 ± 0.50	K	NIST Webbook
tb	405.20 ± 0.50	K	NIST Webbook
tb	404.60 ± 0.40	K	NIST Webbook

tb	404.80	K	Isobaric Vapor-Liquid Equilibrium for Binary and Ternary Systems of tert-Butanol + tert-Butyl Acetate + Chlorobenzene at 101.33 kPa
tb	405.00 ± 3.00	K	NIST Webbook
tb	404.60 ± 0.50	K	NIST Webbook
tb	404.70 ± 0.30	K	NIST Webbook
tb	404.45 ± 0.50	K	NIST Webbook
tb	404.82 ± 0.20	K	NIST Webbook
tb	404.90 ± 0.50	K	NIST Webbook
tb	405.15 ± 0.60	K	NIST Webbook
tb	404.90 ± 0.30	K	NIST Webbook
tb	404.90 ± 0.30	K	NIST Webbook
tb	404.80 ± 1.00	K	NIST Webbook
tb	404.98 ± 0.10	K	NIST Webbook
tb	405.15 ± 0.40	K	NIST Webbook
tb	404.83 ± 0.10	K	NIST Webbook
tb	405.20 ± 0.50	K	NIST Webbook
tb	405.20 ± 0.50	K	NIST Webbook
tb	404.85 ± 0.50	K	NIST Webbook
tb	405.15 ± 0.04	K	NIST Webbook
tb	405.12 ± 0.30	K	NIST Webbook
tb	405.15 ± 0.40	K	NIST Webbook
tb	405.15 ± 0.04	K	NIST Webbook
tb	405.15 ± 0.20	K	NIST Webbook
tb	405.15 ± 0.40	K	NIST Webbook
tb	405.15 ± 0.05	K	NIST Webbook
tb	404.65 ± 0.50	K	NIST Webbook
tb	402.15 ± 1.50	K	NIST Webbook
tb	405.50 ± 0.80	K	NIST Webbook
tb	404.15 ± 1.50	K	NIST Webbook
tb	404.87	K	KDB
tb	404.98 ± 0.25	K	NIST Webbook
tc	635.35 ± 2.00	K	NIST Webbook
tc	632.35 ± 0.30	K	NIST Webbook
tc	632.65 ± 6.00	K	NIST Webbook
tc	632.40	K	KDB
tf	227.80 ± 0.15	K	NIST Webbook
tf	227.82	K	Aqueous Solubility Prediction Method
tf	227.83 ± 0.06	K	NIST Webbook
tf	228.15 ± 1.00	K	NIST Webbook
tf	227.57 ± 0.20	K	NIST Webbook
tf	228.00 ± 1.50	K	NIST Webbook

tf	228.15 ± 0.40	K	NIST Webbook
tf	227.95 ± 0.06	K	NIST Webbook
tf	227.95 ± 0.10	K	NIST Webbook
tf	227.92 ± 0.10	K	NIST Webbook
tf	227.95 ± 0.20	K	NIST Webbook
tf	228.05 ± 0.20	K	NIST Webbook
tf	227.90	K	KDB
tf	227.95 ± 0.50	K	NIST Webbook
tf	227.57 ± 0.10	K	NIST Webbook
tf	227.95 ± 0.50	K	NIST Webbook
tf	228.15 ± 0.30	K	NIST Webbook
tf	228.15 ± 0.30	K	NIST Webbook
tf	228.15 ± 0.25	K	NIST Webbook
tf	228.15 ± 2.00	K	NIST Webbook
tf	228.25 ± 0.50	K	NIST Webbook
tt	227.90 ± 0.20	K	NIST Webbook
vc	0.308	m3/kmol	KDB
zc	0.2647650		KDB
zra	0.27		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	144.94	J/mol×K	474.91	Joback Method
cpg	174.43	J/mol×K	623.15	Joback Method
cpg	167.86	J/mol×K	586.09	Joback Method
cpg	160.77	J/mol×K	549.03	Joback Method
cpg	153.14	J/mol×K	511.97	Joback Method
cpg	136.13	J/mol×K	437.85	Joback Method
cpg	126.70	J/mol×K	400.79	Joback Method
cpl	157.30	J/mol×K	305.60	NIST Webbook
cpl	150.73	J/mol×K	297.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	150.29	J/mol×K	295.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes

cpl	149.85	J/mol×K	293.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	149.41	J/mol×K	291.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	155.41	J/mol×K	317.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	148.56	J/mol×K	287.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	148.14	J/mol×K	285.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	154.93	J/mol×K	315.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	147.73	J/mol×K	283.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	155.90	J/mol×K	319.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	156.39	J/mol×K	321.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes

cpl	151.18	J/mol×K	299.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	157.37	J/mol×K	325.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	157.86	J/mol×K	327.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	148.99	J/mol×K	289.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	151.64	J/mol×K	301.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	152.10	J/mol×K	303.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	156.88	J/mol×K	323.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	152.56	J/mol×K	305.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes

cpl	153.03	J/mol×K	307.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes	
cpl	153.50	J/mol×K	309.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes	
cpl	153.97	J/mol×K	311.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes	
cpl	158.36	J/mol×K	329.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes	
cpl	154.45	J/mol×K	313.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes	
cpl	159.35	J/mol×K	333.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes	
cpl	159.85	J/mol×K	335.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes	
cpl	160.35	J/mol×K	337.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes	
cpl	160.85	J/mol×K	339.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes	

cpl	161.35	J/mol×K	341.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	161.85	J/mol×K	343.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	162.35	J/mol×K	345.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	162.85	J/mol×K	347.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	163.34	J/mol×K	349.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	163.84	J/mol×K	351.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	164.34	J/mol×K	353.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	141.00	J/mol×K	298.00	NIST Webbook
cpl	145.60	J/mol×K	293.20	NIST Webbook
cpl	152.10	J/mol×K	298.15	NIST Webbook
cpl	150.08	J/mol×K	298.10	NIST Webbook
cpl	153.78	J/mol×K	298.15	NIST Webbook
cpl	150.60	J/mol×K	303.15	NIST Webbook
cpl	150.79	J/mol×K	298.15	NIST Webbook
cpl	147.70	J/mol×K	298.00	NIST Webbook

cpl	158.86	J/mol×K	331.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cps	106.30	J/mol×K	216.80	NIST Webbook
dvisc	0.0007570	Pa×s	298.15	Acoustical and Excess Properties of {Chlorobenzene + 1-Hexanol, or 1-Heptanol, or 1-Octanol, or 1-Nonanol, or 1-Decanol} at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0006790	Pa×s	308.15	Thermophysical Properties For Diethylene Glycol + Nitrobenzene and Triethylene Glycol + (Chloro-, Bromo-, Nitro-) Benzene Systems at Different Temperatures
dvisc	0.0007550	Pa×s	298.15	Thermophysical Properties For Diethylene Glycol + Nitrobenzene and Triethylene Glycol + (Chloro-, Bromo-, Nitro-) Benzene Systems at Different Temperatures
dvisc	0.0007258	Pa×s	303.15	Thermophysical properties of the binary mixtures of 1,2-Dichloroethane with Chlorobenzene and Bromobenzene from 298.15 to 313.15 K
dvisc	0.0007568	Pa×s	298.15	Thermophysical properties of the binary mixtures of 1,2-Dichloroethane with Chlorobenzene and Bromobenzene from 298.15 to 313.15 K

dvisc	0.0006170	Pa×s	313.15	Acoustical and Excess Properties of {Chlorobenzene + 1-Hexanol, or 1-Heptanol, or 1-Octanol, or 1-Nonanol, or 1-Decanol} at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0006770	Pa×s	308.15	Acoustical and Excess Properties of {Chlorobenzene + 1-Hexanol, or 1-Heptanol, or 1-Octanol, or 1-Nonanol, or 1-Decanol} at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0007140	Pa×s	303.15	Acoustical and Excess Properties of {Chlorobenzene + 1-Hexanol, or 1-Heptanol, or 1-Octanol, or 1-Nonanol, or 1-Decanol} at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0006240	Pa×s	313.15	Thermophysical properties of the binary mixtures of 1,2-Dichloroethane with Chlorobenzene and Bromobenzene from 298.15 to 313.15 K
dvisc	0.0004658	Pa×s	343.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Dimethyl Carbonate with Chlorobenzene, Hexane, and Heptane from (293.15 to 353.15) K and at Atmospheric Pressure

dvisc	0.0005069	Paxs	333.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Dimethyl Carbonate with Chlorobenzene, Hexane, and Heptane from (293.15 to 353.15) K and at Atmospheric Pressure
dvisc	0.0005677	Paxs	323.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Dimethyl Carbonate with Chlorobenzene, Hexane, and Heptane from (293.15 to 353.15) K and at Atmospheric Pressure
dvisc	0.0006310	Paxs	313.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Dimethyl Carbonate with Chlorobenzene, Hexane, and Heptane from (293.15 to 353.15) K and at Atmospheric Pressure
dvisc	0.0006770	Paxs	308.15	Thermophysical properties of the binary mixtures of 1,2-Dichloroethane with Chlorobenzene and Bromobenzene from 298.15 to 313.15 K
dvisc	0.0007053	Paxs	303.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Dimethyl Carbonate with Chlorobenzene, Hexane, and Heptane from (293.15 to 353.15) K and at Atmospheric Pressure

dvisc	0.0007422	Pa×s	298.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Dimethyl Carbonate with Chlorobenzene, Hexane, and Heptane from (293.15 to 353.15) K and at Atmospheric Pressure
dvisc	0.0008084	Pa×s	293.15	Excess Molar Volumes and Viscosities of Binary Mixtures of Dimethyl Carbonate with Chlorobenzene, Hexane, and Heptane from (293.15 to 353.15) K and at Atmospheric Pressure
dvisc	0.0006350	Pa×s	313.15	Densities, Viscosities, and Thermodynamic Properties of (N,N-Dimethylformamide + Benzene + Chlorobenzene) Ternary Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0006730	Pa×s	308.15	Densities, Viscosities, and Thermodynamic Properties of (N,N-Dimethylformamide + Benzene + Chlorobenzene) Ternary Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0007140	Pa×s	303.15	Densities, Viscosities, and Thermodynamic Properties of (N,N-Dimethylformamide + Benzene + Chlorobenzene) Ternary Mixtures at (298.15, 303.15, 308.15, and 313.15) K

dvisc	0.0007560	Pa×s	298.15	Densities, Viscosities, and Thermodynamic Properties of (N,N-Dimethylformamide + Benzene + Chlorobenzene) Ternary Mixtures at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0006247	Pa×s	313.00	Thermophysical Properties of Binary Mixtures of Methanol with Chlorobenzene and Bromobenzene from 293K to 313K
dvisc	0.0007210	Pa×s	303.00	Thermophysical Properties of Binary Mixtures of Methanol with Chlorobenzene and Bromobenzene from 293K to 313K
dvisc	0.0008432	Pa×s	293.00	Thermophysical Properties of Binary Mixtures of Methanol with Chlorobenzene and Bromobenzene from 293K to 313K
hfust	9.55	kJ/mol	227.90	NIST Webbook
hfust	9.55	kJ/mol	227.90	NIST Webbook
hfust	9.56	kJ/mol	227.89	NIST Webbook
hvapt	35.19	kJ/mol	404.90	NIST Webbook
hvapt	48.10	kJ/mol	285.50	NIST Webbook
hvapt	36.55	kJ/mol	405.10	KDB
hvapt	35.40	kJ/mol	501.00	NIST Webbook
hvapt	38.80	kJ/mol	369.00	NIST Webbook
hvapt	37.30	kJ/mol	278.00	NIST Webbook
pvap	7.92	kPa	330.50	Vapor Pressure Measurements for 2-Chloromethylbenzoxazole and Vapor-Liquid Equilibrium Measurements for the Chlorobenzene + 2-Chloromethylbenzoxazole System

pvap	0.79	kPa	286.30	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	0.95	kPa	289.30	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	1.12	kPa	292.20	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	1.30	kPa	295.20	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	1.54	kPa	298.20	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	2.17	kPa	304.20	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	2.61	kPa	307.20	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	28.33	kPa	363.15	Vapor-Liquid Equilibria for Four Binary Systems at 363.15 K: N-Methylformamide + Hexane, + Benzene, + Chlorobenzene, and + Acetonitrile
pvap	0.65	kPa	283.30	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes

pvap	0.53	kPa	280.30	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	0.44	kPa	277.30	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	0.37	kPa	274.50	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	95.30	kPa	402.35	Vapor-liquid equilibrium for the binary mixtures of dimethylsulfoxide with substituted benzenes
pvap	101.33	kPa	404.80	Isobaric Vapor-Liquid Equilibrium for Binary and Ternary Systems of tert-Butanol + tert-Butyl Acetate + Chlorobenzene at 101.33 kPa
pvap	1.87	kPa	301.20	Vaporization enthalpies of a series of the fluoro- and chloro-substituted methylbenzenes
pvap	10.59	kPa	337.40	Vapor Pressure Measurements for 2-Chloromethylbenzoxazole and Vapor-Liquid Equilibrium Measurements for the Chlorobenzene + 2-Chloromethylbenzoxazole System
pvap	95.50	kPa	402.85	Vapor-liquid equilibrium and excess Gibbs energies of some binary mixtures of acrylonitrile at 95.5 kPa

rfi	1.51600	303.15	Refractive properties, speed of sound and FT-IR study of binary mixtures of N-formylmorpholine with some halobenzenes at 303.15, 308.15 and 313.15 K
rfi	1.52180	298.15	Activity coefficients and excess Gibbs energy of binary mixtures of N,N-dimethyl formamide with selected compounds at 95.5 kPa
rfi	1.51500	308.15	Refractive properties, speed of sound and FT-IR study of binary mixtures of N-formylmorpholine with some halobenzenes at 303.15, 308.15 and 313.15 K
rfi	1.51430	313.15	Refractive properties, speed of sound and FT-IR study of binary mixtures of N-formylmorpholine with some halobenzenes at 303.15, 308.15 and 313.15 K
rfi	1.52190	298.15	(Vapor + liquid) equilibria of binary mixtures formed by iso-octane with a variety of compounds at 95.8 kPa
rfi	1.52176	298.15	Azeotropic behaviour of (benzene + cyclohexane + chlorobenzene) ternary mixture using chlorobenzene as entrainer at 101.3 kPa

rfi	1.52180	298.15	Bubble points of the binary mixtures formed by ethylbenzene with some chloroaliphatics and substituted benzenes at p = 94.7 kPa
rfi	1.52168	298.15	Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15) K
rfi	1.51629	308.15	Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15) K
rfi	1.51072	318.15	Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15) K
rfi	1.52176	298.15	Thermophysical properties of the binary mixtures of 2-methyl-tetrahydrofuran with benzene and halobenzenes
rfi	1.52180	298.15	Liquid-Liquid Equilibria for Mixtures of (Furfural + a Chlorinated Aromatic Compound + an Alkane) at T = 298.15 K

rfi	1.52230	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	1.51950	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	1.51660	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	1.52480	293.15	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	1.52440		293.20	Phase Equilibria for the Ternary Liquid Systems of (Water + Tetrahydrofurfuryl Alcohol + Cyclic Solvent) at 298.2 K
rfi	1.51910		303.15	Excess Volumes of Binary Solutions of Methyl Formate, Ethyl Formate, Propyl Formate, and Benzyl Acetate with Bromo-, Chloro-, and Nitrobenzenes at (303.15, 308.15, and 313.15) K
rfi	1.51348		313.15	Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15) K
rfi	1.51893		303.15	Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15) K
rhoI	1062.80	kg/m3	333.15	Effect of polarity and temperature on the binary interaction between D2EHPA extractant and organic solvents (kerosene, n-heptane, chlorobenzene and 1-octanol): Experimental and thermodynamics
rhoI	1101.17	kg/m3	298.15	Excess Enthalpies of Chloroalkylbenzene + Alkylbenzene Mixtures

rhoI	1100.80	kg/m3	298.15	Thermodynamics of Ternary Liquid Mixtures Containing Toluene, Ethylbenzene, and Chlorobenzene
rhoI	1095.49	kg/m3	303.15	Studies of viscosities of dilute solutions of alkylamine in non-electrolyte solvents. II. Haloalkanes and other polar solvents
rhoI	1079.45	kg/m3	318.15	Studies on the importance of nature of substituent on the thermodynamic and transport properties of liquid mixtures at various temperatures
rhoI	1084.71	kg/m3	313.15	Studies on the importance of nature of substituent on the thermodynamic and transport properties of liquid mixtures at various temperatures
rhoI	1089.72	kg/m3	308.15	Studies on the importance of nature of substituent on the thermodynamic and transport properties of liquid mixtures at various temperatures
rhoI	1095.54	kg/m3	303.15	Studies on the importance of nature of substituent on the thermodynamic and transport properties of liquid mixtures at various temperatures

rhoI	1063.01	kg/m3	333.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K
rhoI	1073.96	kg/m3	323.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K
rhoI	1084.86	kg/m3	313.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K
rhoI	1095.71	kg/m3	303.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K
rhoI	1106.49	kg/m3	293.15	Theoretical and experimental study on volumetric and electromagnetic properties of binary systems consisting of 1,2-dichloroethane with benzene and its derivatives at T = (293.15 to 333.15) K

rhoI	1101.08	kg/m3	298.20	Optimization and modeling of extraction equilibria of the type 2 ternary systems containing (water + isovaleric acid + solvent)
rhoI	1095.79	kg/m3	303.15	The density, refractive index, and thermodynamic behaviour of binary mixtures of 1,3-Diethenyl-1,1,3,3-tetramethyldisiloxane with aromatic hydrocarbons
rhoI	1101.16	kg/m3	298.15	The density, refractive index, and thermodynamic behaviour of binary mixtures of 1,3-Diethenyl-1,1,3,3-tetramethyldisiloxane with aromatic hydrocarbons
rhoI	1106.55	kg/m3	293.15	The density, refractive index, and thermodynamic behaviour of binary mixtures of 1,3-Diethenyl-1,1,3,3-tetramethyldisiloxane with aromatic hydrocarbons
rhoI	1111.89	kg/m3	288.15	The density, refractive index, and thermodynamic behaviour of binary mixtures of 1,3-Diethenyl-1,1,3,3-tetramethyldisiloxane with aromatic hydrocarbons
rhoI	1117.29	kg/m3	283.15	The density, refractive index, and thermodynamic behaviour of binary mixtures of 1,3-Diethenyl-1,1,3,3-tetramethyldisiloxane with aromatic hydrocarbons

rhoI	1073.80	kg/m3	323.15	Effect of polarity and temperature on the binary interaction between D2EHPA extractant and organic solvents (kerosene, n-heptane, chlorobenzene and 1-octanol): Experimental and thermodynamics
rhoI	1084.80	kg/m3	313.15	Effect of polarity and temperature on the binary interaction between D2EHPA extractant and organic solvents (kerosene, n-heptane, chlorobenzene and 1-octanol): Experimental and thermodynamics
rhoI	1095.70	kg/m3	303.15	Effect of polarity and temperature on the binary interaction between D2EHPA extractant and organic solvents (kerosene, n-heptane, chlorobenzene and 1-octanol): Experimental and thermodynamics
rhoI	1101.08	kg/m3	298.00	Optimization of liquid-liquid equilibria of the type 2 ternary systems (water + valeric acid + aromatic solvent): Modeling through SERLAS
rhoI	1106.00	kg/m3	293.15	Bubble point measurements of binary mixtures formed by 1-hexanol with selected nitro-compounds and substituted benzenes at 95.6 kPa

rhoI	1073.97	kg/m3	323.15	Influence of chain length and degree of branching of alcohol + chlorobenzene mixtures on determination and modelling of VE by CEOS and CEOS/GE mixing rules
rhoI	1079.42	kg/m3	318.15	Influence of chain length and degree of branching of alcohol + chlorobenzene mixtures on determination and modelling of VE by CEOS and CEOS/GE mixing rules
rhoI	1086.60	kg/m3	303.15	Density, Viscosity, Sound Speed, and Thermoacoustical Parameters of Benzaldehyde with Chlorobenzene or Nitrobenzene at 303.15 K, 308.15 K, and 313.15 K
rhoI	1090.23	kg/m3	308.15	Influence of chain length and degree of branching of alcohol + chlorobenzene mixtures on determination and modelling of VE by CEOS and CEOS/GE mixing rules
rhoI	1095.64	kg/m3	303.15	Influence of chain length and degree of branching of alcohol + chlorobenzene mixtures on determination and modelling of VE by CEOS and CEOS/GE mixing rules

rhoI	1101.04	kg/m3	298.15	Influence of chain length and degree of branching of alcohol + chlorobenzene mixtures on determination and modelling of VE by CEOS and CEOS/GE mixing rules
rhoI	1106.43	kg/m3	293.15	Influence of chain length and degree of branching of alcohol + chlorobenzene mixtures on determination and modelling of VE by CEOS and CEOS/GE mixing rules
rhoI	1111.81	kg/m3	288.15	Influence of chain length and degree of branching of alcohol + chlorobenzene mixtures on determination and modelling of VE by CEOS and CEOS/GE mixing rules
rhoI	1100.90	kg/m3	298.15	Binary liquid liquid equilibrium in the systems containing monofunctional benzene derivates and 1,2-ethanediol
rhoI	1106.07	kg/m3	293.20	Isobaric vapour liquid equilibria for binary mixtures of n-heptane with bromobenzene, chlorobenzene and fluorobenzene at atmospheric pressure

rhoI	1084.82	kg/m3	313.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules
rhoI	1090.23	kg/m3	308.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules
rhoI	1095.64	kg/m3	303.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules
rhoI	1101.04	kg/m3	298.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules
rhoI	1106.43	kg/m3	293.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules
rhoI	1111.81	kg/m3	288.15	Effect of temperature on the excess molar volumes of some alcohol + aromatic mixtures and modelling by cubic EOS mixing rules

rhoI	1095.52	kg/m3	303.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 2-Ethyl-1-hexanol with Benzene and Halobenzenes
rhoI	1101.03	kg/m3	298.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 2-Ethyl-1-hexanol with Benzene and Halobenzenes
rhoI	1081.10	kg/m3	313.15	Density, Viscosity, Sound Speed, and Thermoacoustical Parameters of Benzaldehyde with Chlorobenzene or Nitrobenzene at 303.15 K, 308.15 K, and 313.15 K
rhoI	1085.10	kg/m3	308.15	Density, Viscosity, Sound Speed, and Thermoacoustical Parameters of Benzaldehyde with Chlorobenzene or Nitrobenzene at 303.15 K, 308.15 K, and 313.15 K
rhoI	1084.82	kg/m3	313.15	Influence of chain length and degree of branching of alcohol + chlorobenzene mixtures on determination and modelling of VE by CEOS and CEOS/GE mixing rules
rhoI	1106.00	kg/m3	293.00	KDB

rhoI	1090.20	kg/m3	308.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 2-Ethyl-1-hexanol with Benzene and Halobenzenes
sfust	41.93	J/mol×K	227.89	NIST Webbook
srf	0.03	N/m	313.15	Thermophysical Properties of para-Anisaldehyde (1) + Chlorobenzene (2) at Temperatures of (303.15, 313.15, and 323.15) K and a Pressure of 0.1 MPa
srf	0.03	N/m	303.15	Thermophysical Properties of para-Anisaldehyde (1) + Chlorobenzene (2) at Temperatures of (303.15, 313.15, and 323.15) K and a Pressure of 0.1 MPa
srf	0.03	N/m	293.20	KDB
srf	0.03	N/m	323.15	Thermophysical Properties of para-Anisaldehyde (1) + Chlorobenzene (2) at Temperatures of (303.15, 313.15, and 323.15) K and a Pressure of 0.1 MPa

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbp	404.35	K	95.30	Excess enthalpies of dimethylsulfoxide with substituted benzenes at 298.15K

tfp	348.81	K	900000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	273.46	K	300000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	288.44	K	400000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	301.03	K	500000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	315.62	K	600000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa

tfp	325.56	K	700000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	336.87	K	800000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	263.03	K	200000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	354.76	K	1000000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	403.44	K	1500000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa

tfp	440.81	K	2000000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	473.28	K	2500000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	503.63	K	3000000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	530.87	K	3500000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa
tfp	246.40	K	100000.00	Fusion Curves and Enthalpy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Chlorobenzene at Pressures up to 3500 MPa

Correlations

Information

Value

Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.45006e+01
Coeff. B	-3.61917e+03
Coeff. C	-3.89210e+01
Temperature range (K), min.	293.56
Temperature range (K), max.	432.78

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C*\ln(T) + D*T^2$
Coeff. A	5.24220e+01
Coeff. B	-6.32735e+03
Coeff. C	-5.42919e+00
Coeff. D	2.47507e-06
Temperature range (K), min.	227.95
Temperature range (K), max.	632.35

Datasets

Speed of sound, m/s

Temperature, K - Liquid	Pressure, kPa - Liquid	Frequency, MHz - Liquid	Speed of sound, m/s - Liquid
303.15	100.00	2.0	1251.8

Reference

<https://www.doi.org/10.1016/j.jct.2015.09.036>

Sources

Thermophysical Properties of para-Anisaldehyde (1) + Chlorobenzene (2) in the Temperature Range 293.15–323.15 K at Pressures up to 101.33 kPa and the Pressure of Coexistence of the Two Phases
Properties of Binary Systems of Chlorobenzene with para-Anisaldehyde
Properties of Binary Systems of Chlorobenzene with 2-Methyl-2-butanol
Properties of Binary Systems of Chlorobenzene with Ethanol
Properties of Binary Systems of Chlorobenzene with Water
Properties of Binary Systems of Chlorobenzene with Ethanol + Water Binary Mixtures between (273.25 and 325.25) K:

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Measurement of activity coefficients at infinite dilution of organic solutes in the refractive properties, speed of sound and ^{13}C -NMR study of binary mixtures of methanol with n-hexane and excess enthalpies of mixing with n-hexane and n-octane at 95.5 kPa: Thermodynamic Properties of Aqueous Solutions of Organic Compounds: Chlorobenzene) Ternary Mixtures at 293.15 K: Temperature Dependence of the Excess Molar Volumes of some alcohol + Benzene Equilibrium between Ternary Systems of Water + Tetrahydrofuran + Acetone and the Excess Properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at 293.15 K: Temperature Measurements on the Binary Mixtures of n-Heptane or Nitrobenzene with Chlorobenzene with Sound and Refractive Indices of Binary Mixtures of Benzene and Chlorobenzene with Benzene and Fluorobenzene: Aromatic Compounds at Infinite Dilution in Alkane and Cycloalkane Solvents: The Yaws Handbook of Vapor Pressure: Solubility of chlorobutane, ethyl methacrylate and trifluoroethyl acrylate in supercritical carbon dioxide: Properties of binary mixtures consist of benzene, chlorobenzene, toluene, and nitrobenzene and solvents: Determination and Correlation of Solubility of 1,4-Dinitro-1H-pyrazole in Substitution of the Solvent: Vapor Pressure Measurements for 2-Cyano-2-methylbenzoxazole and Vapor-Liquid Equilibrium in Binary Mixtures containing Chlorobenzene + Chloroform and Benzene + Chloroform: Solid-Liquid Phase Diagrams of 1-Ethyl-3-(3-methylimidazolium)benzylphosphonium chloride: Halobenzene and other polar solvents: Determination of the solubility of the type 2 ternary systems (water + isobutanol + aromatic solvent) for binary mixtures of chlorobenzene with nitrobenzene, toluene, and ethylbenzene: Equilibrium of the type 2 ternary systems containing (water + isobutanol) with octane with a variety of compounds at 95.0 kPa: Properties from Solubilities: Solubility of 4-methyl-2-nitroaniline in four capillary solvents from $T = (273.15 \text{ to } 313.15) \text{ K}$ and binary systems of n-octane + tetrahydrofuran + chlorobenzene: Selected Physical Properties of Fusion Enthalpy and Entropy and Internal Energy Changes of Benzene, Nitrobenzene, Bromobenzene, and Dichlorobenzene: Chemical Potentials and Pressures of Chlorobenzene, Bromobenzene, and Nitrobenzene at Different Temperatures: Vapor-Liquid Equilibrium of pure organic solvents and organic mixtures: Solubility of 4-methyl-2-nitroaniline in four capillary solvents from $T = (273.15 \text{ to } 313.15) \text{ K}$ and binary systems of n-octane + tetrahydrofuran + chlorobenzene: Measurement of the Henry's Law Constants at Elevated Temperatures Using Gas-Phase Infrared Spectroscopy: Theoretical and experimental study on volumetric and electromagnetic properties and ^{13}C -NMR investigations of binary mixtures of chlorobenzene with benzene and its derivatives: Solubilities of 4-Amino-4'-nitrodiphenyl Sulfide in Six Organic Solvents: Thermodynamic Properties of Binary Mixtures of Methanol with Chlorobenzene Equilibrium for Four Binary Systems at 368.15 K: N-Methylformamide + Hexane, + Benzene, + Chlorobenzene, and + Acetonitrile:

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Azeotropic behaviour of (benzene + cyclohexane + chlorobenzene) ternary mixture; Danks et al. Ternary phase behavior of C₆H₆-Ag₂O-CO₂; Gough et al. Behavior of CO₂-Acetone, CO₂-cyclohexane for ternary liquid systems; Wang et al. The Mixtures in the H₂O-CH₂Cl₂-C₆H₆ Ternary Diagrams Thermodynamic study with substituted benzenes; Substituted benzenes mixtures formed by 1-hexanol with hexanediols and polyols and infinite dilution activity coefficients of organic compounds in water-rich organic liquid properties [Dachak and Bmim][Tf2N]; Thermodynamics of solvation in propylene glycol and methyl tetrahydrofuran; Henry's Law Constants Using Internal Standards Effect of polarity and temperature on the binary interaction between D2EHPA Extractants and Organic Solvents and overmetaloid Anti-uniformity in Division of n-Alkylbenzene and Aromatic Semioctanes as Ionomer and Modeling semi-Hansen Solubility Parameter of Methyl Formate, Ethyl Formate, Propyl Formate and Benzyl Formate with mixtures containing Toluene benzenes at 298.15 K; refractive index, density, index, and Speed of Sound in the Binary Mixtures of Viscosity, Sound Speed, and Chromatographic Parameters of, + Fluoride Method; Chlorobenzene + Bromobenzene with Chlorobenzene at 298.15 K; at 203.15, 207.15, 210.15, 213.15 K, and 313.15 K; Chloroalkane (C₃-C₄) + Acetone efficiency of C₃ and C₄ mixtures energy of binary mixtures on chlorobenzene-sulfur mixtures affected biphenyl mixtures; 1,4-Dichloroethane vaporization enthalpy of a series of the hydrocarbons from 2-substituted 1,5-dichlorobenzenes Correlation of the Solubilities of Sulfur S₈ in 10 Solvents: Studies on the importance of nature of substituent on the thermodynamic and transport properties of liquid mixtures of aromatic benzenes and Alkylbenzene mixtures enthalpies of dimethylsulfoxide with substituted benzenes at 298.15K: Liquid-Liquid Equilibria for Mixtures of (Furfural + a Chlorinated Aromatic compound) and Furfural Partners of (Chlorobenzene + 1-Hexanol, or Biphenyl), liquid equilibria in the ethanol system and furan (298.15, 303.15, 308.15, 313.15, and 318.15 K); benzene derivatives and 1,2-ethanediol:

af: Acentric Factor
affp: Proton affinity

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
cps:	Solid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
fl:	Lower Flammability Limit
flu:	Upper 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
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
rhoc:	Critical density
rhof:	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
tbp:	Boiling point at given pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tfp:	Melting point
tt:	Triple Point Temperature

vc: Critical Volume
zc: Critical Compressibility
zra: Rackett Parameter

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