Benzene, 1,2-dichloro-

Other names:	1,2-DICHLOROBENZENE
	1,2-Dichlorbenzene
	Benzene, o-dichloro-
	CHLOROBEN
	Chloroden
	Cloroben
	DCB
	Dichlorobenzene, o-
	Dichlorobenzene, ortho
	Dilantin DB
	Dilatin db
	Dizene
	Dowtherm E
	NCI-C54944
	NSC 60644
	O-DICHLOROBENZENE
	ODB
	ODCB
	Orthodichlorobenzol
	Special termite fluid
	Termitkil
	UN 1591
	o-Dichlorbenzene
	o-Dichlorbenzol
	o-Dichlorobenzol
	ortho-Dichlorobenzene
Inchi:	InChI=1S/C6H4Cl2/c7-5-3-1-2-4-6(5)8/h1-4H
InchiKey:	RFFLAFLAYFXFSW-UHFFFAOYSA-N
Formula:	C6H4Cl2
SMILES:	Clc1ccccc1Cl
Mol. weight [g/mol]:	147.00
CAS:	95-50-1

Physical Properties

Property code	Value	Unit	Source
af	0.2720		KDB

chl	-2963.90 ± 2.50	kJ/mol	NIST Webbook
chl	-2963.00 ± 2.00	kJ/mol	NIST Webbook
chl	-2962.60 ± 1.30	kJ/mol	NIST Webbook
chl	-2964.70	kJ/mol	NIST Webbook
chl	-2957.80 ± 1.20	kJ/mol	NIST Webbook
chl	-2958.60 ± 0.71	kJ/mol	NIST Webbook
dm	2.30	debye	KDB
ea	0.09	eV	NIST Webbook
gf	82.73	kJ/mol	KDB
hf	33.00	kJ/mol	NIST Webbook
hf	30.00	kJ/mol	KDB
hfl	-16.00 ± 2.00	kJ/mol	NIST Webbook
hfl	-17.40 ± 1.30	kJ/mol	NIST Webbook
hfl	-17.60 ± 0.71	kJ/mol	NIST Webbook
hfpi	904.20	kJ/mol	NIST Webbook
hfpiz	916.70	kJ/mol	NIST Webbook
hfus	13.34	kJ/mol	Joback Method
hvap	49.90	kJ/mol	NIST Webbook
hvap	48.50 ± 0.10	kJ/mol	NIST Webbook
hvap	50.90	kJ/mol	NIST Webbook
ie	9.06 ± 0.02	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
ie	9.06	eV	NIST Webbook
ie	9.07 ± 0.01	eV	NIST Webbook
ie	9.23	eV	NIST Webbook
ie	9.08	eV	NIST Webbook
ie	9.06 ± 0.02	eV	NIST Webbook
ie	9.08 ± 0.01	eV	NIST Webbook
ie	9.08 ± 0.03	eV	NIST Webbook
ie	9.06 ± 0.02	eV	NIST Webbook
log10ws	-3.05		Estimated Solubility Method
log10ws	-3.03		Aqueous Solubility Prediction Method
logp	2.993		Crippen Method
mcvol	96.120	ml/mol	McGowan Method
nfpaf	%!d(float64=2)		KDB
nfpah	%!d(float64=2)		KDB
pc	4100.00	kPa	KDB
rinpol	1029.19		NIST Webbook
rinpol	1005.00		NIST Webbook
rinpol	1038.00		NIST Webbook
rinpol	1050.00		NIST Webbook
rinpol	1021.00		NIST Webbook
rinpol	1076.00		NIST Webbook

rinpol	1013.00	NIST Webbook
rinpol	1019.00	NIST Webbook
rinpol	1024.00	NIST Webbook
rinpol	1045.72	NIST Webbook
rinpol	1046.00	NIST Webbook
rinpol	1049.02	NIST Webbook
rinpol	1049.74	NIST Webbook
rinpol	1002.80	NIST Webbook
rinpol	1022.40	NIST Webbook
rinpol	1030.00	NIST Webbook
rinpol	1012.20	NIST Webbook
rinpol	1021.95	NIST Webbook
rinpol	1025.52	NIST Webbook
rinpol	1045.00	NIST Webbook
rinpol	1030.00	NIST Webbook
rinpol	1025.00	NIST Webbook
rinpol	1016.00	NIST Webbook
rinpol	1016.00	NIST Webbook
rinpol	1009.00	NIST Webbook
rinpol	1028.00	NIST Webbook
rinpol	1031.00	NIST Webbook
rinpol	1015.00	NIST Webbook
rinpol	1033.00	NIST Webbook
rinpol	1012.00	NIST Webbook
rinpol	1010.00	NIST Webbook
rinpol	1013.00	NIST Webbook
rinpol	1014.40	NIST Webbook
rinpol	1003.00	NIST Webbook
rinpol	1027.00	NIST Webbook
rinpol	992.00	NIST Webbook
rinpol	995.00	NIST Webbook
rinpol	1013.00	NIST Webbook
rinpol	1030.00	NIST Webbook
rinpol	986.00	NIST Webbook
rinpol	1050.00	NIST Webbook
rinpol	1007.00	NIST Webbook
rinpol	1005.00	NIST Webbook
rinpol	1006.00	NIST Webbook
rinpol	1031.00	NIST Webbook
rinpol	1007.00	NIST Webbook
rinpol	1008.00	NIST Webbook
rinpol	1067.00	NIST Webbook
rinpol	1055.00	NIST Webbook
rinpol	1007.00	NIST Webbook

rinpol	1007.00	NIST Webbook
rinpol	1009.00	NIST Webbook
rinpol	1030.00	NIST Webbook
rinpol	1031.00	NIST Webbook
rinpol	168.00	NIST Webbook
rinpol	167.40	NIST Webbook
rinpol	1028.00	NIST Webbook
rinpol	168.00	NIST Webbook
rinpol	1013.00	NIST Webbook
rinpol	1007.00	NIST Webbook
rinpol	1008.00	NIST Webbook
rinpol	1009.00	NIST Webbook
rinpol	1005.00	NIST Webbook
rinpol	995.00	NIST Webbook
rinpol	1040.29	NIST Webbook
rinpol	1031.00	NIST Webbook
rinpol	1052.48	NIST Webbook
rinpol	1035.00	NIST Webbook
rinpol	1074.00	NIST Webbook
rinpol	1063.80	NIST Webbook
rinpol	1063.80	NIST Webbook
rinpol	1050.00	NIST Webbook
rinpol	1057.07	NIST Webbook
rinpol	1056.93	NIST Webbook
rinpol	1046.22	NIST Webbook
rinpol	1046.17	NIST Webbook
rinpol	1015.00	NIST Webbook
rinpol	984.00	NIST Webbook
ripol	1514.00	NIST Webbook
ripol	1452.00	NIST Webbook
ripol	1452.00	NIST Webbook
ripol	1529.80	NIST Webbook
ripol	1492.00	NIST Webbook
ripol	1495.00	NIST Webbook
ripol	1486.00	NIST Webbook
ripol	1529.80	NIST Webbook
ripol	1497.00	NIST Webbook
ripol	1495.00	NIST Webbook
ripol	1488.07	NIST Webbook
ripol	1445.00	NIST Webbook
ripol	1447.00	NIST Webbook
ripol	1511.85	NIST Webbook
ripol	1519.77	NIST Webbook
ripol	1492.00	NIST Webbook

ripol	1492.00		NIST Webbook
ripol	1486.00		NIST Webbook
ripol	1455.00		NIST Webbook
ripol	1459.00		NIST Webbook
ripol	1452.00		NIST Webbook
tb	453.40 ± 0.50	K	NIST Webbook
tb	452.65 ± 0.35	K	NIST Webbook
tb	453.70	K	NIST Webbook
tb	453.60	K	KDB
tb	453.00 ± 1.50	K	NIST Webbook
tb	453.63 ± 0.07	K	NIST Webbook
tc	698.80	K	The Critical Temperatures of a Number of (i) (Chloroalkane (C3 C4) + Hydrocarbon (C6 C7)) Binary Mixtures and (ii) (Aromatic Halocarbon (Chlorobenzene, Fluorobenzene, 1,2-Dichlorobenzene, or 1,3-Dichlorobenzene) + Alkane (C8)) Binary Mixtures
tc	729.00	K	KDB
tf	255.92	K	Aqueous Solubility Prediction Method
tf	256.10	K	KDB
tf	256.00 ± 2.00	K	NIST Webbook
tf	255.20 ± 0.20	K	NIST Webbook
tf	256.15 ± 0.05	K	NIST Webbook
tf	256.00 ± 0.10	K	NIST Webbook
tf	256.00 ± 0.50	K	NIST Webbook
tf	256.14 ± 0.05	K	NIST Webbook
tf	256.12 ± 0.05	K	NIST Webbook
tf	256.13 ± 0.10	K	NIST Webbook
vc	0.360	m3/kmol	KDB
zc	0.2435130		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	157.36	J/mol×K	481.81	Joback Method
cpg	165.09	J/mol×K	520.42	Joback Method
cpg	178.92	J/mol×K	597.64	Joback Method
cpg	185.08	J/mol×K	636.25	Joback Method

cpg	190.77	J/mol×K	674.86	Joback Method
cpg	172.26	J/mol×K	559.03	Joback Method
cpg	149.05	J/mol×K	443.20	Joback Method
cpl	169.64	J/mol×K	293.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	168.06	J/mol×K	285.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	168.44	J/mol×K	287.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	168.83	J/mol×K	289.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	169.23	J/mol×K	291.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	167.68	J/mol×K	283.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	170.05	J/mol×K	295.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	170.47	J/mol×K	297.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes

cpl	170.89	J/mol×K	299.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	171.32	J/mol×K	301.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	171.76	J/mol×K	303.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	172.20	J/mol×K	305.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	172.64	J/mol×K	307.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	173.09	J/mol×K	309.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	173.54	J/mol×K	311.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	174.00	J/mol×K	313.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	174.46	J/mol×K	315.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes

cpl	174.92	J/mol×K	317.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	175.38	J/mol×K	319.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	175.85	J/mol×K	321.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	170.90	J/mol×K	298.15	NIST Webbook
cpl	176.79	J/mol×K	325.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	177.26	J/mol×K	327.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	177.73	J/mol×K	329.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	178.20	J/mol×K	331.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	178.67	J/mol×K	333.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes

cpl	179.14	J/mol×K	335.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	179.61	J/mol×K	337.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	180.07	J/mol×K	339.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	180.54	J/mol×K	341.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	181.00	J/mol×K	343.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	181.47	J/mol×K	345.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	181.92	J/mol×K	347.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	182.38	J/mol×K	349.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	176.32	J/mol×K	323.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes

cpl	183.28	J/mol×K	353.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
cpl	182.83	J/mol×K	351.15	Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes
dvisc	0.0006166	Pa×s	349.68	Joback Method
dvisc	0.0008628	Pa×s	318.51	Joback Method
dvisc	0.0021588	Pa×s	256.16	Joback Method
dvisc	0.0002989	Pa×s	443.20	Joback Method
dvisc	0.0003668	Pa×s	412.03	Joback Method
dvisc	0.0004656	Pa×s	380.85	Joback Method
dvisc	0.0012985	Pa×s	287.33	Joback Method
hfust	12.40	kJ/mol	255.90	NIST Webbook
hfust	12.93	kJ/mol	256.50	NIST Webbook
hfust	12.92	kJ/mol	255.65	NIST Webbook
hfust	12.93	kJ/mol	256.50	NIST Webbook
hvapt	39.66	kJ/mol	449.10	KDB
hvapt	50.00	kJ/mol	322.00	NIST Webbook
hvapt	51.20	kJ/mol	256.00	NIST Webbook
hvapt	44.50	kJ/mol	408.50	NIST Webbook
hvapt	50.80	kJ/mol	271.50	NIST Webbook
hvapt	51.20	kJ/mol	285.50	NIST Webbook
hvapt	44.00	kJ/mol	413.00	NIST Webbook
pvap	95.11	kPa	451.11	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	59.97	kPa	433.29	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene

pvap	55.03	kPa	429.99	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	79.98	kPa	443.92	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	90.20	kPa	448.94	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	45.05	kPa	422.87	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	40.02	kPa	418.75	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	35.02	kPa	414.16	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene

pvap	4.86	kPa	360.41	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	30.00	kPa	408.91	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	24.99	kPa	403.40	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	20.04	kPa	396.96	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	69.93	kPa	438.87	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	9.95	kPa	377.35	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene

pvap	14.98	kPa	388.41	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
pvap	98.36	kPa	452.62	Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene
rfi	1.54600		298.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 2-Octanol with Chlorobenzenes
rfi	1.54500		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	1.54760		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	1.54990		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	1.54910	298.15	Liquid-Liquid Equilibria for Mixtures of (Furfural + a Chlorinated Aromatic Compound + an Alkane) at T = 298.15 K
rfi	1.53320	328.20	Mass Diffusion Coefficient and Soret Coefficient of o-Dichlorobenzene Solutions of PCBM and [60]Fullerene by the Soret Forced Rayleigh Scattering Method
rfi	1.53860	318.20	Mass Diffusion Coefficient and Soret Coefficient of o-Dichlorobenzene Solutions of PCBM and [60]Fullerene by the Soret Forced Rayleigh Scattering Method
rfi	1.54380	308.20	Mass Diffusion Coefficient and Soret Coefficient of o-Dichlorobenzene Solutions of PCBM and [60]Fullerene by the Soret Forced Rayleigh Scattering Method
rfi	1.54890	298.20	Mass Diffusion Coefficient and Soret Coefficient of o-Dichlorobenzene Solutions of PCBM and [60]Fullerene by the Soret Forced Rayleigh Scattering Method

rfi	1.55230		288.20	Mass Diffusion Coefficient and Soret Coefficient of o-Dichlorobenzene Solutions of PCBM and [60]Fullerene by the Soret Forced Rayleigh Scattering Method
rfi	1.54100		308.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 2-Octanol with Chlorobenzenes
rfi	1.54400		303.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 2-Octanol with Chlorobenzenes
rhol	1299.20	kg/m3	303.15	Effect of various substituents on benzene ring and their impact on volumetric, acoustic and transport properties of binary liquid mixtures with dimethylacetamide
rhol	1306.00	kg/m3	293.00	KDB
sfust	50.50	J/mol×K	255.65	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	451.20	K	102.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.40308e+01
Coeff. B	-3.67273e+03
Coeff. C	-6.35030e+01
Temperature range (K), min.	330.74
Temperature range (K), max.	484.72

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	6.74184e+01
Coeff. B	-8.04769e+03
Coeff. C	-7.42072e+00
Coeff. D	1.61077e-06
Temperature range (K), min.	256.15
Temperature range (K), max.	729.00

Datasets

Viscosity, Pa*s

Pressure, kPa - Liquid	Temperature, K - Liquid	Viscosity, Pa*s - Liquid
101.00	303.15	0.0013020

Reference *https://www.doi.org/10.1016/j.jct.2006.04.005*

Sources

Mass Diffusion Coefficient and Soret Coefficient of o-Dichlorobenzene Solutions of PCBM and Poly(3-hexylthiophene-2,5-diyl):	https://www.doi.org/10.1021/acs.jced.5b00609
Measurement and Correlation of the Solubilities of Sulfur (S8) in 10 Solvents: The Effects of Temperature and Inorganic Salts on the Aqueous Solubility of Selected Chlorobenzenes:	https://www.doi.org/10.1021/acs.jced.7b00699
Measurement of Diffusion Coefficients by the Forced Rayleigh Scattering Method:	https://www.doi.org/10.1021/je034170d
KDB:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1677
Liquid-Liquid Equilibria for Mixtures of (Furfural + a Chlorinated Aromatic Compound + an Alkane) at T = 298.15 K:	https://www.doi.org/10.1021/je020107x

KDB Vapor Pressure Data:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1677
S6 Isomer of C60(CF3)12: Synthesis, properties and thermodynamic functions:	https://www.doi.org/10.1016/j.jct.2013.06.004
The Critical Temperatures of a Number of (i) (Chloroalkane (C3 C4) + Hydrocarbon (C6 C7)) Binary Mixtures and (ii) (Aromatic Halocarbon (Chlorobenzene, Fluorobenzene, Chlorobenzenes, or 1,3-Dichlorobenzene) + Alkane (C8)) Binary Mixtures:	https://www.doi.org/10.1021/acs.jced.7b00191
Densities, Viscosities, Speeds of Sound, and Refractive Indices of Binary Mixtures of 1,4-Dioxane with Dichloromethane, 1,2-Dichloroethane, and Chlorobenzene at 298.15 K:	https://www.doi.org/10.1007/s10765-011-1087-7
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Physico-Chemical Properties of LiFSI Solutions I. LiFSI with Valeronitrile, Dichloromethane, 1,2-Dichloroethane, and Chlorobenzene:	https://www.doi.org/10.1021/acs.jced.8b00590
Binary Mixtures. Studies of Solubility for Naphthalene in 12 Solvents from 273 to 330 K:	https://www.doi.org/10.1021/acs.jced.9b00064
Joback Method:	http://link.springer.com/article/10.1007/BF02311772
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Heat Capacities and Densities of Some Liquid Chloro-, Bromo-, and Bromochloro-Substituted Benzenes:	https://www.doi.org/10.1021/je600573w
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:	https://www.doi.org/10.1021/je049609w
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
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Phase behavior of ionic liquids 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imides with halogenated benzenes:	

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
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfpi:	Enthalpy of formation of positive ion at standard conditions
hfpiz:	Enthalpy of formation of positive ion at 0K
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
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume
zc:	Critical Compressibility