

Methylene chloride

Other names:	Aerothene MM
	CH ₂ Cl ₂
	Chlorure de methylene
	DICHLOROMETHANE
	F 30
	F 30 (chlorocarbon)
	FREON 30
	HCC 30
	Khladon 30
	METHYLENE DICHLORIDE
	Metaclen
	Methane dichloride
	Methane, dichloro-
	Methoklone
	Methylene bichloride
	Metylenu chlorek
	NCI-C50102
	NSC 406122
	Narkotil
	R 30
	R-30
	Rcra waste number U080
	Salesthin
	Solaesthin
	Soleana VDA
	Solmethine
	UN 1593
Inchi:	InChI=1S/CH ₂ Cl ₂ /c2-1-3/h1H ₂
InchiKey:	YMWUJEATGCHHMB-UHFFFAOYSA-N
Formula:	CH ₂ Cl ₂
SMILES:	CICCl
Mol. weight [g/mol]:	84.93
CAS:	75-09-2

Physical Properties

Property code	Value	Unit	Source
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af	0.1990		KDB
affp	628.00 ± 8.00	kJ/mol	NIST Webbook
basg	602.00 ± 8.00	kJ/mol	NIST Webbook
chl	-602.50	kJ/mol	NIST Webbook
chl	-605.80 ± 8.40	kJ/mol	NIST Webbook
dm	1.80	debye	KDB
gf	-68.91	kJ/mol	KDB
gyrad	2.4320		KDB
hf	-95.10 ± 2.50	kJ/mol	NIST Webbook
hf	-95.70 ± 1.30	kJ/mol	NIST Webbook
hf	-95.46	kJ/mol	KDB
hfl	-124.10 ± 2.50	kJ/mol	NIST Webbook
hfl	-124.30	kJ/mol	NIST Webbook
hfus	6.74	kJ/mol	Joback Method
hvap	29.03 ± 0.08	kJ/mol	NIST Webbook
hvap	28.80	kJ/mol	NIST Webbook
hvap	29.00	kJ/mol	NIST Webbook
hvap	28.50 ± 0.42	kJ/mol	NIST Webbook
hvap	30.60 ± 0.10	kJ/mol	NIST Webbook
ie	11.32 ± 0.01	eV	NIST Webbook
ie	11.35 ± 0.02	eV	NIST Webbook
ie	11.40	eV	NIST Webbook
ie	11.33 ± 0.04	eV	NIST Webbook
ie	11.40	eV	NIST Webbook
ie	11.32	eV	NIST Webbook
ie	11.28	eV	NIST Webbook
ie	11.33	eV	NIST Webbook
ie	11.36	eV	NIST Webbook
log10ws	-0.63		Aqueous Solubility Prediction Method
log10ws	-0.63		Estimated Solubility Method
logp	1.421		Crippen Method
mcvol	49.430	ml/mol	McGowan Method
nfpah	%!d(float64=2)		KDB
pc	6100.00	kPa	KDB
pc	6355.00 ± 15.00	kPa	NIST Webbook
rinpol	515.00		NIST Webbook
rinpol	520.00		NIST Webbook
rinpol	511.00		NIST Webbook
rinpol	527.00		NIST Webbook
rinpol	528.00		NIST Webbook
rinpol	529.00		NIST Webbook
rinpol	515.00		NIST Webbook
rinpol	519.00		NIST Webbook

rinpol	515.00	NIST Webbook
rinpol	515.00	NIST Webbook
rinpol	531.00	NIST Webbook
rinpol	514.00	NIST Webbook
rinpol	512.00	NIST Webbook
rinpol	528.00	NIST Webbook
rinpol	515.00	NIST Webbook
rinpol	504.00	NIST Webbook
rinpol	510.00	NIST Webbook
rinpol	527.00	NIST Webbook
rinpol	530.00	NIST Webbook
rinpol	524.00	NIST Webbook
rinpol	524.00	NIST Webbook
rinpol	515.00	NIST Webbook
rinpol	531.00	NIST Webbook
rinpol	511.00	NIST Webbook
rinpol	512.70	NIST Webbook
rinpol	531.00	NIST Webbook
rinpol	531.00	NIST Webbook
rinpol	488.00	NIST Webbook
rinpol	480.00	NIST Webbook
rinpol	520.00	NIST Webbook
rinpol	524.00	NIST Webbook
rinpol	531.60	NIST Webbook
rinpol	512.70	NIST Webbook
rinpol	510.00	NIST Webbook
rinpol	540.00	NIST Webbook
rinpol	540.00	NIST Webbook
rinpol	531.00	NIST Webbook
rinpol	513.00	NIST Webbook
rinpol	511.00	NIST Webbook
rinpol	477.00	NIST Webbook
rinpol	497.90	NIST Webbook
rinpol	524.00	NIST Webbook
rinpol	553.50	NIST Webbook
rinpol	518.00	NIST Webbook
rinpol	520.00	NIST Webbook
rinpol	519.00	NIST Webbook
rinpol	537.90	NIST Webbook
rinpol	516.50	NIST Webbook
rinpol	516.90	NIST Webbook
rinpol	508.00	NIST Webbook
rinpol	504.90	NIST Webbook
rinpol	518.00	NIST Webbook

rinpol	506.30		NIST Webbook
rinpol	542.20		NIST Webbook
rinpol	548.40		NIST Webbook
rinpol	553.70		NIST Webbook
rinpol	555.90		NIST Webbook
rinpol	537.80		NIST Webbook
rinpol	515.00		NIST Webbook
rinpol	486.00		NIST Webbook
ripol	933.00		NIST Webbook
ripol	933.00		NIST Webbook
ripol	919.00		NIST Webbook
ripol	925.00		NIST Webbook
ripol	928.00		NIST Webbook
ripol	912.00		NIST Webbook
ripol	927.00		NIST Webbook
ripol	933.00		NIST Webbook
ripol	914.00		NIST Webbook
ripol	917.00		NIST Webbook
ripol	937.20		NIST Webbook
ripol	948.00		NIST Webbook
ripol	933.00		NIST Webbook
ripol	932.00		NIST Webbook
ripol	944.00		NIST Webbook
ripol	953.00		NIST Webbook
ripol	944.00		NIST Webbook
ripol	927.00		NIST Webbook
ripol	936.00		NIST Webbook
ripol	937.20		NIST Webbook
ripol	905.00		NIST Webbook
ripol	948.00		NIST Webbook
ripol	948.00		NIST Webbook
ripol	931.00		NIST Webbook
ripol	925.00		NIST Webbook
ripol	914.00		NIST Webbook
ripol	933.00		NIST Webbook
ripol	933.00		NIST Webbook
ripol	926.65		NIST Webbook
ripol	935.70		NIST Webbook
ripol	946.00		NIST Webbook
ripol	948.00		NIST Webbook
ripol	937.00		NIST Webbook
ripol	932.62		NIST Webbook
sl	174.50	J/molxK	NIST Webbook
tb	312.95 ± 0.50	K	NIST Webbook

tb	313.15 ± 1.00	K	NIST Webbook
tb	313.20 ± 0.50	K	NIST Webbook
tb	313.20 ± 1.00	K	NIST Webbook
tb	312.92 ± 0.07	K	NIST Webbook
tb	312.95 ± 0.30	K	NIST Webbook
tb	314.70 ± 0.50	K	NIST Webbook
tb	314.95 ± 0.50	K	NIST Webbook
tb	313.00	K	NIST Webbook
tb	312.93 ± 0.20	K	NIST Webbook
tb	313.35 ± 0.20	K	NIST Webbook
tb	313.00	K	KDB
tb	313.30 ± 0.30	K	NIST Webbook
tc	510.00	K	NIST Webbook
tc	508.00 ± 0.20	K	NIST Webbook
tc	510.00	K	KDB
tf	176.65 ± 0.40	K	NIST Webbook
tf	177.00 ± 2.00	K	NIST Webbook
tf	198.06 ± 0.40	K	NIST Webbook
tf	177.62	K	Aqueous Solubility Prediction Method
tf	178.01	K	KDB
tf	176.00 ± 1.50	K	NIST Webbook
vc	0.190	m3/kmol	Joback Method
zra	0.26		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	57.56	J/molxK	327.38	Joback Method
cpg	67.25	J/molxK	478.55	Joback Method
cpg	65.49	J/molxK	448.32	Joback Method
cpg	63.64	J/molxK	418.08	Joback Method
cpg	61.71	J/molxK	387.85	Joback Method
cpg	59.68	J/molxK	357.61	Joback Method
cpg	55.35	J/molxK	297.14	Joback Method
cpl	100.00	J/molxK	298.10	NIST Webbook
cpl	102.30	J/molxK	298.15	NIST Webbook
cpl	100.00	J/molxK	298.00	NIST Webbook
cpl	129.30	J/molxK	298.00	NIST Webbook
cpl	105.50	J/molxK	303.20	NIST Webbook
cpl	100.50	J/molxK	292.50	NIST Webbook

cpl	100.80	J/molxK	292.50	NIST Webbook
dvisc	0.0004912	Paxs	251.72	Joback Method
dvisc	0.0006594	Paxs	229.00	Joback Method
dvisc	0.0009444	Paxs	206.29	Joback Method
dvisc	0.0014784	Paxs	183.58	Joback Method
dvisc	0.0026264	Paxs	160.87	Joback Method
dvisc	0.0003842	Paxs	274.43	Joback Method
dvisc	0.0003120	Paxs	297.14	Joback Method
hfust	6.16	kJ/mol	178.20	NIST Webbook
hfust	6.16	kJ/mol	178.22	NIST Webbook
hfust	6.16	kJ/mol	178.20	NIST Webbook
hvapt	30.30	kJ/mol	287.50	NIST Webbook
hvapt	29.00	kJ/mol	347.00	NIST Webbook
hvapt	30.20	kJ/mol	273.00	NIST Webbook
hvapt	29.40	kJ/mol	249.00	NIST Webbook
hvapt	29.20	kJ/mol	308.00	NIST Webbook
hvapt	28.06	kJ/mol	313.00	NIST Webbook
pvap	85.33	kPa	308.17	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)
pvap	90.66	kPa	309.82	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)
pvap	95.99	kPa	311.39	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)
pvap	67.40	kPa	301.80	Effect of Dissolved Poly(lactic acid) on the Solubility of CO2, N2, and He Gases in Dichloromethane
pvap	79.99	kPa	306.43	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)

pvap	45.70	kPa	291.90	Effect of Dissolved Poly(lactic acid) on the Solubility of CO ₂ , N ₂ , and He Gases in Dichloromethane
pvap	37.10	kPa	287.00	Effect of Dissolved Poly(lactic acid) on the Solubility of CO ₂ , N ₂ , and He Gases in Dichloromethane
pvap	197.94	kPa	333.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	70.49	kPa	303.15	Total Vapor Pressure Measurements for 2-Ethoxyethanol with Carbon Tetrachloride, Chloroform, and Dichloromethane at 303.15 K
pvap	74.66	kPa	304.61	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C ₁ - C ₄)
pvap	69.33	kPa	302.67	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C ₁ - C ₄)
pvap	63.99	kPa	300.61	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C ₁ - C ₄)
pvap	34.66	kPa	285.89	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C ₁ - C ₄)

pvap	37.33	kPa	287.58	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)
pvap	41.33	kPa	289.94	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)
pvap	45.33	kPa	292.12	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)
pvap	49.33	kPa	294.15	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)
pvap	53.33	kPa	296.05	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)
pvap	58.66	kPa	298.41	Limiting activity coefficient measurements in binary mixtures of dichloromethane and 1-alkanols (C1 - C4)
pvap	55.90	kPa	296.80	Effect of Dissolved Poly(lactic acid) on the Solubility of CO ₂ , N ₂ , and He Gases in Dichloromethane
rfi	1.42370		293.15	Solubilities of Some Phosphaspirocyclic Compounds in Selected Solvents

rfi	1.42370		293.15	Solubilities of Phosphorus-Containing Compounds in Selected Solvents
rfi	1.42760		288.15	Partial Molar Volumes of N,N'-1,2-Ethyl-bis(salicyladimine) Schiff Base (Salen) in Organic Solvents at T = (283.15 to 318.15) K
rfi	1.42510		293.15	Partial Molar Volumes of N,N'-1,2-Ethyl-bis(salicyladimine) Schiff Base (Salen) in Organic Solvents at T = (283.15 to 318.15) K
rfi	1.42190		298.15	Partial Molar Volumes of N,N'-1,2-Ethyl-bis(salicyladimine) Schiff Base (Salen) in Organic Solvents at T = (283.15 to 318.15) K
rfi	1.43050		283.15	Partial Molar Volumes of N,N'-1,2-Ethyl-bis(salicyladimine) Schiff Base (Salen) in Organic Solvents at T = (283.15 to 318.15) K
rhoI	1307.51	kg/m3	303.15	Volumetric properties of binary liquid mixtures: Application of the Prigogine Flory Patterson theory to excess molar volumes of dichloromethane with benzene or toluene
rhoI	1325.67	kg/m3	293.15	Volumetric properties of dichloromethane with aniline or nitrobenzene at different temperatures: A theoretical and experimental study

rhoI	1334.81	kg/m3	288.15	Volumetric properties of dichloromethane with aniline or nitrobenzene at different temperatures: A theoretical and experimental study
rhoI	1317.00	kg/m3	298.00	KDB
rhoI	1316.58	kg/m3	298.15	Volumetric properties of dichloromethane with aniline or nitrobenzene at different temperatures: A theoretical and experimental study
rhoI	1307.90	kg/m3	303.15	Volumetric properties of dichloromethane with aniline or nitrobenzene at different temperatures: A theoretical and experimental study
rhoI	1334.08	kg/m3	288.15	Volumetric properties of binary liquid mixtures: Application of the Prigogine Flory Patterson theory to excess molar volumes of dichloromethane with benzene or toluene
rhoI	1325.79	kg/m3	293.15	Volumetric properties of binary liquid mixtures: Application of the Prigogine Flory Patterson theory to excess molar volumes of dichloromethane with benzene or toluene
rhoI	1327.00	kg/m3	293.15	Interfacial Properties, Densities, and Contact Angles of Task Specific Ionic Liquids

rhoI	1307.60	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
rhoI	1316.75	kg/m3	298.15	Volumetric properties of binary liquid mixtures: Application of the Prigogine Flory Patterson theory to excess molar volumes of dichloromethane with benzene or toluene
srf	0.03	N/m	293.20	KDB

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbp	313.25	K	96.60	Low cost apparatus for rapid boiling point determination of small air sensitive samples under inert atmosphere

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.43555e+01

Coeff. B	-2.65134e+03
Coeff. C	-4.07080e+01
Temperature range (K), min.	229.18
Temperature range (K), max.	510.00

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	8.08779e+01
Coeff. B	-6.03061e+03
Coeff. C	-1.00863e+01
Coeff. D	9.81251e-06
Temperature range (K), min.	178.01
Temperature range (K), max.	510.00

Sources

Solubilities of Rutaecarpine in Twelve Organic Solvents from (283.2 to 323.2) K: High Pressure Phase Equilibrium Data for the Ternary System Containing High Pressure Vapor-Liquid Equilibrium of Some Carbon Dioxide + Organic Binary Systems: Activity Coefficients at Infinite Dilution of Organic Solutes in Interactions of Volatile Organic Compounds with the Ionic Liquid 1-methyl-3-vinylimidazolium Hexafluorophosphate Using Microwave Carbon Tetrachloride + Chloroform, Carbon Tetrachloride + Dichloromethane, and Chloroform + Dichloromethane and Some Binary dissolution enthalpy and entropy of representative ternary mixtures (chloroform + carbon tetrachloride + carbon dioxide) at 300 K and 101.325 kPa: Infinite Dilution of Organic Solutes in Liquid 1-methyl-3-vinylimidazolium Hexafluorophosphate Using Gas Liquid Chromatography: (1,2,3,4,5,6-hexafluoro-2-phenyl)-3-methylimidazolium Tetrafluoroborate Ionic Crystal Phosphazene: The Yaws Handbook of Vapor Pressure: Crippen Method:

Solubility of Acephate in Different Solvents from (292.90 to 327.60) K: Measurement and Correlation of Solubility of Tetraphenyl Measurement and Correlation of the Solubility of 2-Cyanoacetamide in 14 Polar Solvents and Correlation of liquid-liquid equilibrium data for the anisole and 1-methyl-2-pyridone interaction between organic compounds: data for ternary (carbon dioxide + dichloromethane + acetone) and quaternary system (carbon dioxide + dichloromethane + acetone + 1-methyl-2-pyridone) using gas-liquid chromatography: Phase equilibria of methylpyrrolidone, Tetrahydrofuran, Nitrobenzene, Dichloromethane, 1,2-Dichloroethane, and 1,2-Dichlorobenzene:

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ole-ethanethioic
<https://www.doi.gov>

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thyl)-1,3,2-dioxaphosphinane
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raphenyl
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Activity coefficients at infinite dilution
of organic solutes in the ionic liquid
Activity Coefficients at Infinite Dilution
of Organic Solutes in
Binary Phosphorylimidazolium Nitrate
Oxane Functionalized Ionic Liquids:
Using Inverse Gas Chromatography:
Compounds with the ionic liquid
Solubility of N-methylimidazolium
tetrafluoroborate diphenyl Sulfide in Six
Organic Solvents for Zearalenone
pest determination of small air
density & semisolid and infinite
Dilution
of Organic Compounds in
Packing Material of Poly(Phosphazene) in Ionic Liquid)
distribution in the ternary system Using
waves and surface enthalpic interactions of
aromatic compounds by density,
refractive index and dielectric constant
organic solvents and lithium salt Water
Binary Mixtures of n-Butyl (278.95 to 313.15)
Amberlite-LA2 Is Used in the Extraction
determination of the thermodynamic
parameters of ionic liquid
KBr-Pyrazole in the Thermophysical
Properties Database)
Partition Coefficients of Organic
Compounds in New Imidazolium and
Solubility of Pyolute in Water,
Diethylacetamide, CsClO₄ form, and
Electrochromic Absorption and Correlation
of 2,2'-Dipyridine in 12 Pure Organic
solvents.
Solubilities of Imidacloprid in Different
Solvents:
Solubilities of Phosphoramidic Acid,
N-(phenylmethyl)-, Diphenyl Ester in
Selected Solvents
Stationary Phases:

Phase Separation in Binary Mixtures Containing Linear Perfluoroalkanes: 1-Ethyl-3-methylimidazolium Ethylsulfate in Water, Acetonitrile, and Dichloromethane. **Phase Equilibria of the Related Systems as in the Limonene Solution**. **Supercritical CO₂**. **Phosphoric Acid, Methylphenylphosphinic Acid, Hexamethylphosphoramide, and Tetrahydrofuran in Dichloromethane in Measurement and Correlation of the Dissolution Equilibria of o-Iodoaniline and p-Iodoaniline in These Solvents: Benzimidazoles, and Phenylimidazoles in Tetrahydrofuran and Ethylbutane, reagents and infinite dilution for organic compounds in the ionic liquid 1-methyl-3-methylimidazolium chloride: Dichloromethane and Supercritical CO₂ in Dichloromethane + Hexamethylphosphoramide systems containing water, phosphoric acid in Dichloromethane and in Tetrahydrofuran. **Dissolved in Three Binary Mixtures and Correlation of Liquid Phase Equilibrium Data for the Ternary Systems**. **Supercritical CO₂ and Alkyl Side Solubility of Ceramide Systems: Pentahydrate in Different Solvents**. **Evaluation of the Performance of Trigeminal Tricationic Ionic Liquids for Supercritical Processes: Densities, and Contact Angles of Task Specific Ionic Liquids of Ofloxacin in 1,2-Dichloromethane, Chloroform, Carbon Tetrachloride, and Water**. **Dilution of Organic Compounds in Four New Imidazolium-Based Ionic Liquids**. **Compounds in Selected Solvents: Study of interaction between organic compounds and mono or dicationic Mg(II) and Mn(II) liquids using gas chromatography: Solubility and Thermodynamic Functions of Isatin in Pure Solvents:****

[illegible]

Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dm:	Dipole Moment

dvisc:	Dynamic viscosity
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
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhof:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sl:	Liquid phase molar entropy at standard conditions
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tbp:	Boiling point at given pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume
zra:	Rackett Parameter

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