

Chloroform

Trichloromethane

Warning

H351 H302 H373 H315

P201 P281 P302+P352 P309+P311

CAS 67-66-3

Index 602-006-00-4

EINECS: 200-663-8

UN: 1888

ADR 6.1,III

Restricted to industrial plants

CHCl₃

M.W. 119.38 g/mol

Density: 1.4832 g/cm³ (20 °C)

Boiling Pt: 61.7 °C (1013 hPa)

Melting Pt: -63 °C

Storage Temperature: Ambient temperature

**Chloroform AnaR NORMAPUR® analytical reagent**

Stabilised with ethanol 0.6 %

Appearance	Clear colourless liquid	Assay (on anhydrous substance)	99.0 to 99.4 %
Insolubility in alcohol	Passes test	IR Spectrum	Passes test
Suited for determination with dithizone	Passes test	Acidity	Max. 0.00014 meq/g
Boiling point	59.5 to 60.5 °C	Colouration	Max. 10 APHA
Density (20/4)	1.478 to 1.484	Density (20/20)	1.481 to 1.487
Formaldehyde-sulphuric colouration	Max. 60 APHA	Substances discoloured by H ₂ SO ₄	Max. 35 APHA
Carbon tetrachloride	Max. 100 ppm	Carbonyl compounds (as CO)	Max. 50 ppm
Dichloromethane	Max. 100 ppm	Ethanol	0.6 to 1.0 %
Evaporation residue	Max. 5 ppm	Free chlorine	Max. 0.3 ppm
Ionised chlorine	Max. 0.5 ppm	Tetrachloroethylene	Max. 100 ppm
Trichloroethylene	Max. 100 ppm	Water	Max. 100 ppm
Cl (Chloride)	Max. 0.2 ppm	Al (Aluminium)	Max. 0.05 ppm
B (Boron)	Max. 0.01 ppm	Ba (Barium)	Max. 0.01 ppm
Ca (Calcium)	Max. 0.1 ppm	Cd (Cadmium)	Max. 0.01 ppm
Co (Cobalt)	Max. 0.01 ppm	Cr (Chromium)	Max. 0.02 ppm
Cu (Copper)	Max. 0.01 ppm	Fe (Iron)	Max. 0.1 ppm
K (Potassium)	Max. 0.1 ppm	Mg (Magnesium)	Max. 0.05 ppm
Mn (Manganese)	Max. 0.01 ppm	Na (Sodium)	Max. 0.5 ppm
Ni (Nickel)	Max. 0.01 ppm	Pb (Lead)	Max. 0.01 ppm
Sn (Tin)	Max. 0.05 ppm	Sr (Strontium)	Max. 0.02 ppm
Zn (Zinc)	Max. 0.05 ppm	Conforms to BDH 10077	Passes test

Cat. No.	Pk	Pack type
22711.260	500 ml	Glass bottle
22711.244	1 l	Glass bottle SAFEBREAK
22711.290	1 l	Glass bottle
22711.324	2,5 l	Glass bottle
22711.461	25 l	Metal drum

Chloroform HiPerSolv CHROMANORM® for HPLC

Stabilised with 2-methyl-2-butene 0.002 ppm

Filtered 0.2 µm filter, packaged under nitrogen

Assay (GC)	Min. 99.8 %
Water	Max. 0.05 %
Non-volatile residue	Max. 0.001 %
Acidity	Max. 0.0005 meq/g
Alkalinity	Max. 0.0002 meq/g
Transmittance (250 nm)	Min. 50 %
Transmittance (260 nm)	Min. 84 %
Transmittance (280 nm)	Min. 95 %
Transmittance (300 nm)	Min. 98 %
Conforms to BDH 15283	Passes test

Cat. No.	Pk	Pack type
83626.290	1 l	Glass bottle
83626.320	2,5 l	Glass bottle

Chloroform HiPerSolv CHROMANORM® for HPLC

Stabilised with ethanol 0.6 %

Filtered 0.2 µm filter, packaged under nitrogen

Assay (GC)	Min. 99.8 %
Water	Max. 0.05 %
Non-volatile residue	Max. 0.001 %
Acidity	Max. 0.0005 meq/g
Alkalinity	Max. 0.0002 meq/g
Transmittance (300 nm)	Min. 50 %
Transmittance (260 nm)	Min. 84 %
Transmittance (280 nm)	Min. 95 %
Transmittance (300 nm)	Min. 98 %

Cat. No.	Pk	Pack type
83627.290	1 l	Glass bottle
83627.320	2,5 l	Glass bottle

Chloroform SPECTRONORM® for spectroscopy

Stabilised with ethanol 0.6 %

Filtered 0.2 µm filter, packaged under nitrogen

Assay (on anhydrous substance)	99.0 to 99.6 %
Density (20/4)	1.478 to 1.484
Distillation range	59.5 to 61.5 °C
Evaporation residue	Max. 5 ppm
Transmittance (250 nm)	Min. 50 %
Transmittance (260 nm)	Min. 85 %
Transmittance (270 nm)	Min. 95 %
Transmittance (280 nm)	Min. 96 %
Transmittance (from 290 nm)	Min. 98 %

Cat. No.	Pk	Pack type
22715.293	1 l	Glass bottle

Chloroform, anhydrous (max. 0.005% H₂O) AnaR NORMAPUR® analytical reagent

Stabilised with 2-methyl-2-butene

Assay (calculated on anhydrous)	Min. 99.5 %	Colour value	Max. 10 APHA
Acidity	Max. 0.0005 %	Residue on evaporation	Max. 0.0005 %
Water (K.F.)	Max. 0.0050 %	Dichloromethane	Max. 0.0100 %
Carbon tetrachloride	Max. 0.0100 %	Trichloroethene	Max. 0.0100 %
1,1,2,2-Tetrachloroethane	Max. 0.0100 %	Formaldehyde-sulphuric colouration	Max. 60 APHA
Substances discoloured by H ₂ SO ₄	Max. 35 APHA	Free chlorine	Max. 0.00003 %
Cl (Chloride)	Max. 0.5 ppm	Al (Aluminium)	Max. 0.5 ppm
B (Boron)	Max. 0.02 ppm	Ba (Barium)	Max. 0.1 ppm
Ca (Calcium)	Max. 0.5 ppm	Cd (Cadmium)	Max. 0.01 ppm
Co (Cobalt)	Max. 0.02 ppm	Cr (Chromium)	Max. 0.02 ppm
Cu (Copper)	Max. 0.01 ppm	Fe (Iron)	Max. 0.1 ppm
Mg (Magnesium)	Max. 0.1 ppm	Mn (Manganese)	Max. 0.02 ppm
Ni (Nickel)	Max. 0.01 ppm	Pb (Lead)	Max. 0.01 ppm
Sn (Tin)	Max. 0.1 ppm	Zn (Zinc)	Max. 0.05 ppm

Cat. No.	Pk	Pack type
22709.235	250 ml	Glass bottle
22709.292	1 l	Glass bottle

Chloroform BP

Stabilised with ethanol 0.6 %

Not licenced for use as an anaesthetic in human or veterinary applications.

Appearance	Clear colourless liquid
Identification	Passes test
Distillation range	Passes test
Weight per ml	1.474 to 1.479 g
Acidity or alkalinity	Passes test
Cl (Chloride)	Passes test
Free chlorine	Passes test
Aldehydes	Passes test
Foreign chlorine compounds	Passes test
Related substances	Passes test
Ethanol	Passes test
Non-volatile matter	Max. 40 mg/l
Residual solvents	Passes test

Cat. No.	Pk	Pack type
22705.323	2,5 l	Glass bottle