

Chloroform (Trichloromethane)

Laboratory and industrial grade chloroform

Product Description

High purity chloroform used as a solvent in laboratories and various industrial processes.

Certificate of Analysis

HSN Code: 2903.49

CAS Number: 67-66-3

Classification: Hazardous - Toxic and Suspect

Parameter	Specification	Test Method
Purity (CHCl ₃)	"e 99.5 %	Gas Chromatography (GC)
Water Content	"d 0.05 %	Karl-Fischer titration
Stabilizer (if present)	0.05 – 0.5%	GC / GC-MS
Acidic Impurities (as HCl)	"d 0.001 %	Ion chromatography / titration
Color (APHA / Pt-Co)	"d 10	Photometric / visual
Odor	Characteristic, sweetish	Sensory / qualitative
Density (20 °C)	1.48 – 1.49 g · cm ⁻³	Pycnometer / density meter
Boiling Point	61.0 – 61.5 °C	Distillation / literature
Refractive Index (20 °C)	1.445 – 1.447	Refractometer
Insoluble Matter / Residue	"d 0.01 %	Gravimetric / filtration
Solubility in Water (20 °C)	"H 8 g / L	Visual / literature

Physical Properties

Appearance: Clear, colorless liquid (may yellow on prolonged storage/oxidation)

Odor: Sweet, ether-like odor

Molecular Formula: CHCl₃

Molecular Weight: 119.38 g/mol

Solubility: Sparingly soluble in water; miscible with most organic solvents

Density: 1.48 – 1.49 g/cm³

Packing: 25 L / 30 L HDPE or glass-lined drums, 200 L steel drums, IBCs / ISO tanks

Storage: Store in a cool, dry, well-ventilated area away from direct sunlight and heat sources

Safety & Handling

PPE: Chemical-resistant gloves, safety goggles, respirator

Hazards:

- Toxic by inhalation and ingestion
- Suspected human carcinogen
- Can form phosgene