

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Chlorobenzene
- English Name: Chlorobenzene
- CAS Number: 108-90-7
- Formula: C₆ H₅ Cl
- Molecular Weight: 112.56 g/mol
- Product Characteristics: Colorless clear liquid with a characteristic aromatic odor. High-purity aromatic halide solvent with excellent solubility for organic compounds. Chemically stable under normal conditions, flammable, and moderately toxic.

2. Technical Specifications

Item	Specification
Appearance	Colorless clear liquid
Purity (GC)	≥ 99.5%
Water Content	≤ 0.05%
Density (20°C)	1.105-1.107 g/cm ³
Boiling Range	131.0-133.0°C
Flash Point (Closed Cup)	28°C
Viscosity (20°C)	0.80 mPa·s
Non-Volatile Residue	≤ 0.005%
Heavy Metals (Pb)	≤ 0.5 ppm
Heavy Metals (As)	≤ 0.1 ppm
Total Chloride (as Cl ⁻)	≤ 10 ppm

3. Product Advantages

1. High Purity: Low impurity content ensures consistent performance in chemical synthesis and analysis.
2. Excellent Solvency: Dissolves resins, oils, waxes, and organic intermediates, ideal for industrial processes.
3. Chemical Stability: Inert to most common reagents under standard operating conditions.
4. Balanced Volatility: Suitable evaporation rate for coatings, adhesives, and extraction applications.

4. Application Fields

- Chemical Synthesis: Precursor for phenol, aniline, and organic halide intermediates.
- Industrial Solvent: Coatings, inks, rubber processing, and pesticide formulations.
- Laboratory Research: Analytical reagent, calibration standard, and reaction solvent.
- Industrial Cleaning: Precision metal parts and electronic component cleaning (specialized use).

5. Usage Methods



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- Dosage: Adjust according to application (20-100% concentration; dilute with compatible solvents if needed).
- Application: Use in closed systems for synthesis; employ spray or immersion for cleaning (ensure ventilation).
- Optimal Conditions: Operate at 15-30°C in well-ventilated areas; strictly avoid ignition sources.

6. Packaging & Storage

- Packaging Specifications: 5L HDPE cans, 20L steel drums, 200L steel drums, 1000L IBC totes (UN-approved).
- Storage Conditions: Store in cool, dry, well-ventilated warehouses (temperature $\leq 30^{\circ}\text{C}$). Keep sealed, away from heat, sparks, and oxidizing agents.
- Shelf Life: 12 months (unopened, under specified storage conditions).
- Transportation: Classified as flammable hazardous goods; transport per relevant regulations.

7. Safety & Protection

- Flammable and moderately toxic: No smoking near storage/use areas; prohibit open flames.
- Wear appropriate PPE: Chemical safety goggles, nitrile rubber gloves, anti-static clothing, and organic vapor respirator.
- Avoid inhalation, skin contact, or ingestion; ensure local exhaust ventilation.
- In case of exposure, follow first aid measures in MSDS and seek medical attention promptly.

8. Quality Assurance

- Manufactured under ISO 9001 quality management system.
- Each batch is accompanied by a COA for compliance verification.
- Provide technical support for safe application and process optimization.

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