



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Technical Data Sheet (TDS)

### 1. Product Overview

- Product Name: Toluene
- English Name: Toluene
- CAS Number: 108-88-3
- Formula: C<sub>7</sub> H<sub>8</sub>
- Molecular Weight: 92.14 g/mol
- Product Characteristics: Colorless clear liquid with a characteristic aromatic odor. High-purity aromatic hydrocarbon 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)	0.866-0.868 g/cm <sup>3</sup>
Boiling Range	110.5-111.5°C
Flash Point (Closed Cup)	4°C
Viscosity (20°C)	0.59 mPa·s
Non-Volatile Residue	≤ 0.005%
Heavy Metals (Pb)	≤ 0.5 ppm
Heavy Metals (As)	≤ 0.1 ppm
Total Sulfur	≤ 5 ppm

### 3. Product Advantages

1. High Purity: Low impurity content ensures consistency in chemical processes and analysis.
2. Excellent Solvency: Dissolves most organic materials, ideal for coatings, adhesives, and extraction.
3. Balanced Volatility: Suitable evaporation rate for industrial manufacturing and cleaning.
4. Chemical Stability: Inert to most common reagents under standard operating conditions.

### 4. Application Fields

- Chemical Synthesis: Precursor for benzene, toluene diisocyanate (TDI), and organic intermediates.
- Industrial Solvent: Coatings, inks, rubber, resins, and paint thinners.
- Laboratory Research: Analytical reagent, calibration standard, and reaction solvent.
- Industrial Cleaning: Precision parts and electronic component cleaning (with proper ventilation).

### 5. Usage Methods

- Dosage: Adjust according to application (20-100% concentration; dilute with compatible solvents if required).



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- 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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