

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Acetone (Propanone)
- English Name: Acetone; Propanone
- CAS Number: 67-64-1
- Formula: C₃H₆ O
- Molecular Weight: 58.08 g/mol
- Product Characteristics: Colorless clear liquid with a characteristic pungent odor. Highly volatile ketone solvent with excellent solubility for polar and non-polar compounds. Chemically stable under normal conditions, extremely flammable, and low toxicity.

2. Technical Specifications

Item	Specification
Appearance	Colorless clear liquid
Purity (GC)	≥ 99.5%
Water Content	≤ 0.05%
Density (20°C)	0.790-0.792 g/cm ³
Boiling Range	55.5-56.5°C
Flash Point (Closed Cup)	-20°C
Viscosity (20°C)	0.32 mPa s
Non-Volatile Residue	≤ 0.005%
Heavy Metals (Pb)	≤ 0.5 ppm
Heavy Metals (As)	≤ 0.1 ppm
Acidity (as CH ₃ COOH)	≤ 0.001%

3. Product Advantages

1. High Purity: Low impurity content ensures stable performance in precision processes.
2. Superior Solvency: Dissolves resins, plastics, and organic compounds, ideal for cleaning and synthesis.
3. Fast Evaporation: Leaves no residue, suitable for electronic and precision part cleaning.
4. Wide Compatibility: Compatible with most solvents and materials, low corrosion risk.

4. Application Fields

- Chemical Synthesis: Precursor for methyl methacrylate, bisphenol A, and pharmaceutical intermediates.
- Industrial Solvent: Coatings, adhesives, inks, and nail polish removers.
- Laboratory Research: Analytical reagent, reaction solvent, and sample preparation.
- Industrial Cleaning: Electronic components, precision metal parts, and optical equipment cleaning.

5. Usage Methods

- Dosage: Adjust according to application (30-100% concentration; dilute with compatible solvents if needed).
- Application: Spray, wipe, or immerse for cleaning; use in closed systems for synthesis.
- Optimal Conditions: Operate at 15-25°C in well-ventilated areas; strictly eliminate 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

- Extremely flammable: No smoking near storage/use areas; prohibit open flames and static electricity.
- Wear appropriate PPE: Chemical safety goggles, nitrile rubber gloves, and anti-static clothing.
- Avoid inhalation of high concentrations; 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.