

## Technical Data Sheet (TDS)

### 1. Product Overview

- Product Name: Ethyl Acetate
- English Name: Ethyl Acetate; Acetic Acid Ethyl Ester
- CAS Number: 141-78-6
- Formula: C<sub>4</sub>H<sub>8</sub> O<sub>2</sub>
- Molecular Weight: 88.11 g/mol
- Product Characteristics: Colorless clear liquid with a fruity odor. High-purity ester solvent with excellent solubility for organic compounds. Chemically stable under normal conditions, highly flammable, and low toxicity.

### 2. Technical Specifications

Item	Specification
Appearance	Colorless clear liquid
Purity (GC)	≥ 99.5%
Water Content	≤ 0.1%
Density (20°C)	0.894-0.896 g/cm <sup>3</sup>
Boiling Range	76.0-78.0°C
Flash Point (Closed Cup)	-4°C
Viscosity (20°C)	0.45 mPa s
Non-Volatile Residue	≤ 0.005%
Heavy Metals (Pb)	≤ 0.5 ppm
Heavy Metals (As)	≤ 0.1 ppm
Acidity (as CH <sub>3</sub> COOH)	≤ 0.001%

### 3. Product Advantages

1. High Purity: Low impurity content ensures stable performance in formulations and synthesis.
2. Excellent Solvency: Dissolves resins, oils, and polymers, ideal for coatings and adhesives.
3. Fast Evaporation: Leaves no residue, suitable for printing and cleaning applications.
4. Pleasant Odor: Fruity fragrance reduces workplace odor irritation.

### 4. Application Fields

- Chemical Synthesis: Precursor for pharmaceuticals, agrochemicals, and organic intermediates.
- Industrial Solvent: Coatings, inks, adhesives, and nail polish removers.
- Laboratory Research: Analytical reagent, reaction solvent, and extraction agent.
- Food Industry: Food flavoring (food-grade grade), artificial fruit essence.

### 5. Usage Methods

- Dosage: Adjust according to application (30-100% concentration; dilute with compatible solvents if needed).
- Application: Use in closed systems for synthesis; spray or wipe for cleaning.

- Optimal Conditions: Operate at 15-25°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

- Highly flammable: No smoking near storage/use areas; prohibit open flames.
- 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.