

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Butyl Acetate (n-Butyl Acetate)
- English Name: Butyl Acetate; n-Butyl Acetate
- CAS Number: 123-86-4
- Formula: $C_8H_{12}O_2$
- Molecular Weight: 116.16 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, flammable, and low toxicity.

2. Technical Specifications

Item	Specification
Appearance	Colorless clear liquid
Purity (GC)	$\geq 99.5\%$
Water Content	$\leq 0.1\%$
Density (20°C)	0.881-0.883 g/cm ³
Boiling Range	124.0-127.0°C
Flash Point (Closed Cup)	22°C
Viscosity (20°C)	0.73 mPa s
Non-Volatile Residue	$\leq 0.005\%$
Heavy Metals (Pb)	≤ 0.5 ppm
Heavy Metals (As)	≤ 0.1 ppm
Acidity (as CH_3COOH)	$\leq 0.001\%$

3. Product Advantages

1. High Purity: Low impurity content ensures stable performance in coatings and formulations.
2. Excellent Solvency: Dissolves resins, oils, and polymers, ideal for industrial paints.
3. Low Volatility: Long-lasting effect in coatings, reducing reapplication frequency.
4. Pleasant Odor: Fruity fragrance improves workplace comfort.

4. Application Fields

- Chemical Synthesis: Precursor for pharmaceuticals, agrochemicals, and organic intermediates.
- Industrial Solvent: Coatings, inks, adhesives, and lacquers.
- 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 (20-100% concentration; dilute with compatible solvents if needed).
- Application: Use in closed systems for synthesis; mix with other solvents for formulation.

- Optimal Conditions: Operate at 15-30°C in well-ventilated areas; 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: No smoking near storage/use areas; prohibit open flames.
- Wear appropriate PPE: Chemical safety goggles, nitrile rubber gloves, and protective clothing.
- Avoid inhalation and skin contact; 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.