

## Technical Data Sheet (TDS)

### 1. Product Overview

- Product Name: Sodium Acetate (Anhydrous)
- English Name: Sodium Acetate (Anhydrous)
- CAS Number: 127-09-3 (Correct CAS); 140-90-9 (Ethyl Acetate, Reference)
- Formula:  $C_2H_3NaO_2$
- Molecular Weight: 82.03 g/mol
- Product Characteristics: High-purity white crystalline powder, mild alkaline, highly soluble in water. Excellent buffering, preservative, and pH-adjusting properties. Non-toxic, biodegradable, suitable for food, pharmaceutical, and industrial applications.

### 2. Technical Specifications

Item	Specification
Appearance	White crystalline powder
Purity ( $C_2H_3NaO_2$ )	$\geq 99.0\%$
Moisture Content (Anhydrous)	$\leq 1.0\%$
pH Value (5% solution, 25°C)	7.5-9.0
Heavy Metals (Pb)	$\leq 5$ ppm
Heavy Metals (As)	$\leq 2$ ppm
Iron (Fe)	$\leq 0.001\%$
Insoluble Matter in Water	$\leq 0.05\%$
Chloride ( $Cl^-$ )	$\leq 0.005\%$
Solubility (20°C)	$\geq 120$ g/100 mL (water)
Melting Point	320-325°C

### 3. Product Advantages

- High purity and consistent quality.
- Excellent buffering capacity (maintains pH stability).
- Highly soluble in water for easy formulation.
- Non-toxic and safe for food/pharmaceutical use.
- Cost-effective for large-scale applications.

### 4. Application Fields

- Food Industry: Preservative, buffering agent, flavor enhancer (pickles, sauces, baked goods).
- Pharmaceuticals: Excipient for tablets, capsules, and injectables.
- Water Treatment: pH adjuster, corrosion inhibitor.
- Chemical Synthesis: Intermediate for dyes, pharmaceuticals, and organic compounds.
- Other: Deicing agent, laboratory reagent, electroplating bath additive.

### 5. Usage Methods

- Food: Add 0.1-2.0% (mass ratio) to formulations; comply with food additive limits.



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- Water Treatment: Dosage 50-500 ppm; dissolve in water before adding.
- Chemical Synthesis: Use in specified molar ratios; react at 20-100°C.
- Optimal Conditions: Apply at 15-40°C; avoid strong acids.

### 6. Packaging & Storage

- Packaging: 5 kg/bag (plastic-lined kraft bag), 25 kg/drum (HDPE), 1000 kg/IBC totes.
- Storage: Cool, dry, well-ventilated warehouse ( $\leq 30^{\circ}\text{C}$ ); keep sealed.
- Shelf Life: 36 months (unopened).
- Transportation: Non-dangerous goods; avoid moisture, collision.

### 7. Safety & Protection

- Wear protective gloves and safety goggles during handling.
- Avoid skin/eye contact; rinse immediately if contact occurs.
- Food-grade product: Comply with food additive dosage limits.

### 8. Quality Assurance

- Manufactured under ISO 9001 and HACCP (food grade) standards.
- Each batch accompanied by COA.
- Provide technical support for formulation and application.

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