

SPECIFICATION

Product Name: Sodium Propionate Powder Food Grade
Chemical Formula: $C_3H_5NaO_2$
CAS Number: 137-40-6
Molecular Weight: 96.06 g/mol
Appearance: White or almost white powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Assay (On dried basis)	%	99.05%	98.0% - 101.0%
PH (5% sol.)	-	7.33	7 to 9
10% solution in water	-	Clear and colourless	Clear and colourless
Total impurities	%	<0.5%	Max. 0.5%
Readily Oxidizing Substance	-	Passes the test	Passes the test
Iron	%	<0.001%	Max. 0.001%
Heavy metals	%	<0.001%	Max. 0.001%
Loss on drying (at 105°C)	%	0.18%	Max. 0.5%

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Insoluble in acetone.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place. Keep the container tightly closed to protect from moisture and contamination. Store away from excessive heat, humidity, and direct sunlight in the original, properly labeled container to maintain product quality and stability.

Applications

- Use: Widely used as a food preservative to inhibit the growth of molds, yeasts, and certain bacteria, thereby extending the shelf life of food products. It is commonly used in bread, cakes, pastries, bakery products, cheese, processed foods, and animal feed. It also helps maintain product quality and freshness during storage.

- Dosage: Depends on the intended application, food category, and applicable food regulations. It should be used according to product formulation requirements and within the maximum limits permitted by the relevant regulatory authority (such as **FSSAI**, **FDA**, or **EFSA**). The appropriate usage level varies based on the food type, processing conditions, and desired preservative effect.

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.