

SPECIFICATION

Product Name: Sodium Benzoate Food Grade
Chemical Formula: $C_7H_5NaO_2$
CAS Number: 532-32-1
Molecular Weight: 144.11 g/mol
Appearance: Brownish yellow oily clear liquid
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification A	-	Complies	A white crystalline precipitate is produced.
Identification B	-	Complies	Gives the reaction of sodium salts and reactions B and C of benzoates.
Appearance of solutions	-	Complies	Solution is clear and not more intensely coloured than reference solution.
Acidity or Alkalinity	ml/m	0.05ml of 0.1m NAOH	NMT 0.2ml of 0.1m hydrochloric acid or 0.2ml of 0.1m sodium hydroxide is required to change the colour of the solution.
Arsenic	PPM	<1 PPM	Max. 2 PPM
Heavy metals	PPM	<10 PPM	Max. 10 PPM
Chlorinated compounds	-	Complies	The filtrate complies with the limit test for chlorides.
Loss on drying	%	0.20%	NMT 2.0%
Assay	%	99.86%	NLT 99.0% and NMT 100.5%

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Insoluble in acetone. Soluble in methanol. Insoluble in ether. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, moisture-resistant container in a cool, dry, and well-ventilated place, protected from moisture, excessive heat, direct sunlight, and contamination.

Applications

- Use: Widely used to inhibit the growth of yeasts, molds, and certain bacteria in acidic food and beverage products. It helps extend shelf life and maintain product quality.
- Dosage: Depends on the food category, product pH, formulation, processing conditions, and applicable food regulations. It is most effective in acidic foods and beverages (typically pH below 4.5).

Packaging

- Standard Packing: 25 Kgs 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.