

SPECIFICATION

Product Name: Sodium Benzoate IP Grade
Chemical Formula: C ₇ H ₅ NaO ₂
CAS Number: 532-32-1
Molecular Weight: 144.11 g/mol
Appearance: White Powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification	-	Complies	Passes IP Test
pH (5% w/v Solution)	-	7.8	7.0 - 8.5
Loss on Drying	%	0.5%	NMT 1.5%
Acidity or Alkalinity	-	Complies	Passes IP Test
Readily Carbonizable Substances	-	Complies	Passes IP Test
Chlorides	%	0.01%	NMT 0.03%
Sulphates	%	0.01%	NMT 0.05%
Heavy Metals	PPM	< 10 PPM	NMT 20 PPM
Arsenic	PPM	<1 PPM	NMT 3 PPM
Lead	PPM	< 0.5 PPM	NMT 2 PPM
Related Substances	-	Complies	Passes IP requirements
Assay (on Dried Basis)	%	99.8%	99.0% - 100.5%

Bulk Density	g/ml	0.65 g/ml	Informational
Particle Size	-	95% through 40 mesh	As agreed, specification

Physical Properties

- Solubility: Freely soluble in water. Soluble in ethanol. Soluble 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 container in a cool, dry, and well-ventilated place, protected from moisture, heat, and contamination.

Applications

- Use: Widely used in pharmaceutical, nutraceutical, food, beverage, and personal care formulations. It helps inhibit the growth of bacteria, yeasts, and molds, thereby extending product shelf life.
- Dosage: Depends on the formulation type, pH, regulatory limits, and required antimicrobial protection.

Packaging

- Standard Packing: 25 kg 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.