

Sodium Benzoate

Preservative for liquid formulations

Product Description

Pharmaceutical-grade Sodium Benzoate is an antimicrobial preservative used in oral liquid preparations, syrups and topical formulations. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2916.31

CAS Number: 532-32-1

Classification: Pharmaceutical Excipient – Preservative

Parameter	Specification	Test Method
Appearance	White granular or crystalline powder	Visual
Assay	99.0–100.5% on dried basis	Acid-Base Titration
Identification	IR spectrum conforms; positive for benzoate and sodium	IR / Flame test
pH (1% aq. solution)	8.0–9.5	Potentiometry
Loss on Drying	"d 1.5 %	USP <731>
Acidity/Alkalinity	Passes test	Titration
Chlorinated Compounds (as Cl)	"d 0.05 %	Argentometric
Heavy Metals (as Pb)	"d 10 ppm	ICP-MS
Arsenic	"d 2 ppm	Hydride AAS

Physical Properties

Appearance: White granular or crystalline odorless powder

Odor: Odorless or faint characteristic odor

Molecular Formula: $C_7H_5O_2Na$

Molecular Weight: 144.10 g/mol

Solubility: Freely soluble in water (~660 g/L at 25°C); sparingly soluble in ethanol

Melting Point: Decomposes above 300°C

Packing: 25 kg HDPE woven bags with PE inner liner; 50 kg bags; 1 kg / 5 kg bags for pharma use

Storage: Store in cool, dry, well-ventilated area. Keep away from strong oxidizing agents and acids.

Safety & Handling

PPE: Gloves, safety goggles, dust mask for handling powder

Hazards:

- Mildly irritating to eyes, skin, and respiratory tract
- Low oral toxicity