

SPECIFICATION

Product Name: Sodium Saccharin
Chemical Formula: C ₇ H ₄ NNaO ₃ S
CAS Number: 128-44-9
Molecular Weight: 205.17 g/mol
Appearance: White colourless crystals
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification	-	As per standard	As per standard
Free acid	ml	Complies	4.5ml – 5.5ml
Melting point of isolated saccharin	°C	227°C	226 - 230°C
Heavy metals	PPM	Complies	NMT 20 PPM
Water content by KF	%	12.2%	12 – 16%
Assay on dry basis	%	98.3%	NLT 98%

Physical Properties

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

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Protect from moisture, excessive humidity, direct sunlight, and contamination. Keep the container tightly closed in the original, properly labeled packaging to prevent moisture absorption and caking. Store away from strong oxidizing agents, strong acids, and incompatible materials. Proper storage helps maintain the product's sweetening potency, purity, free-flowing properties, and stability.

Applications

- Use: Widely used as a high-intensity, non-nutritive sweetening agent in pharmaceutical, nutraceutical, food, beverage, and oral care formulations. It provides intense sweetness with negligible calories and is commonly incorporated into tablets, syrups, oral solutions, chewable tablets, lozenges, powders, dietary supplements, sugar-free beverages, confectionery, chewing gum, desserts, tabletop sweeteners, toothpastes, and mouthwashes. It is also used to mask the bitter taste of active pharmaceutical ingredients (APIs) and improve the palatability and consumer acceptability of finished products. Sodium Saccharin is especially suitable for sugar-free and low-calorie formulations.

- Dosage: Depends on the type of formulation, desired sweetness, and applicable regulatory limits.

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.