

## SPECIFICATION

<b>Product Name:</b> Sodium Saccharin IP/BP Grade
<b>Chemical Formula:</b> C <sub>7</sub> H <sub>4</sub> NO <sub>3</sub> SNa·2H <sub>2</sub> O
<b>CAS Number:</b> 128-44-9
<b>Molecular Weight:</b> 241.19 g/mol
<b>Appearance:</b> White Crystals or White Crystalline Powder.
<b>Odor:</b> Odorless or has a Faint Aromatic Odor.

### Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification:	-		
A) Infrared Absorption	-	Complies	The IR Absorption Spectrum of the sample should be concordant with the RS/WS IR Spectrum of Saccharin Sodium.
B) Precipitate test	-	Complies	A Dense Precipitate is Formed
C) Flame test	-	Complies	Sodium Salts Impart an Intense yellow color to a Nonluminous Flame.
Assay by HPLC (anhydrous basis)	%	99.40%	NLT 99.0% and NMT 101.0%
Limit of Toluene sulfonamide			
o-Toluene sulfonamide	PPM	2.9 PPM	NMT 10 PPM
p- Toluene sulfonamide	PPM	Not detected	NMT 10 PPM
Limit of Benzoate and Salicylate	-	Complies	No Precipitate or Violet Color Appears
Water Content	%	13.50%	NMT 15.0%

Readily Carboni sable Substances	-	Complies	No Solution has no more color than matching fluid A, When Viewed Against a White Background
Acidity or alkalinity	-	Complies	No Red or pink Color is Produced. Then add 1 Drop of 0.1 n. Sodium hydroxide: a red or pink color is produced.
Clarity of Solution	-	Complies	The Sample Solution Shows the same Clarity as that of water, or Its opalescence is NMT that of reference Suspension A.
Color of the Solution	-	Complies	The sample solution has whether the Appearance of water or is not. more Intensely Colored than the Standard Solution.

### **Physical Properties**

- Solubility: Freely Soluble in Water, Sparingly Soluble in Alcohol (Absolute).

### **Shelf Life & Storage**

- Shelf Life: 5 years from date of manufacture under recommended storage.  
 - Storage Conditions: Store in a tightly closed, airtight container to prevent moisture absorption. Keep in a cool, dry, and well-ventilated place. Protect from humidity and direct sunlight.  
 Recommended storage temperature: room temperature (15–30°C). Keep away from strong oxidizing agents and incompatible substances. Ensure containers are properly labeled and sealed after each use.

### **Applications**

- Use: Used as a sweetening agent in tablets, syrups, chewables, lozenges, and oral suspensions to improve taste without adding calories. Acts as a non-nutritive artificial sweetener in products like soft drinks, bakery items, confectionery, jams, and diet foods. Suitable for sugar-free and low-calorie products, as it does not raise blood glucose levels.  
 -Dosage: Depends on bitterness of API and desired sweetness level.



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**CIN:** U24230GJ2011PTC064654

### **Packaging**

- Standard Packing: 25 kg HDPE bags 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.

