

SPECIFICATION

Product Name: Sodium Saccharin IP/BP Grade
Chemical Formula: $C_7H_4NO_3SNa \cdot 2H_2O$
CAS Number: 128-44-9
Molecular Weight: 241.19 g/mol
Appearance: White Crystals or White Crystalline Powder.
Odor: 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 Carbonisable 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.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner, 1 kgs and 100 grams 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.