

SPECIFICATION

Product Name: Sucrose IP/BP Grade (20-80#)- Zuari Make
Chemical Formula: $C_{12}H_{22}O_{11}$
CAS Number: 57-50-1
Molecular Weight: 342.30 g/mol
Appearance: An almost white or crystalline powder
Odor: Odorless sweet in test

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Complies	An orange precipitate is produced immediately.
Heavy Metals as Pb	-	Complies	The solution complies with the limit test for heavy metals
Appearance of Solution	-	Complies	Clear solution after addition of ammonium Oxalate for at least 1 minute
Sulphated ash	%	0.0014%	NMT 0.1%
Dextrin	-	Complies	Solution remains yellow or becomes faint bluish green
Sulphites	-	Complies	Blue colour develops
Glucose & Invert Sugar	-	Passes the test	The blue colour does not disappear completely
Coloring matter	-	Passes the test A & B	Passes the test A & B
Specific Optical rotation	-	Complies (66.3*)	+65.9 to 67.0

Acidity / Alkalinity	-	Complies (0.36 ml required)	NMT 0.6 ml of 0.01 M sodium hydroxide is required to change the colour of the solution to Pink
Barium	-	Complies	Any opalescence is not more than a mixture of 1 ml of distilled water add 10 ml solution A
Bacterial Endotoxin	-	Not detected	Not more than 0.25 Endotoxin unit per mg of sucrose
Colour	IU	35 IU	Max. 45 IU
Moisture	%	0.06%	0.10%

Physical Properties

- Solubility: Very soluble in water, freely soluble in Ethanol (70%), Practically insoluble in Ethanol.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry, and well-ventilated place. Keep in tightly closed containers to prevent moisture absorption. Protect from humidity and water exposure (hygroscopic in nature). Avoid direct sunlight and heat. Keep away from strong odors and volatile substances (can absorb odors). Use food/pharma-grade packaging (HDPE bags, lined containers).

Applications

- Use: Used as a sweetening agent in syrups, suspensions, and oral liquids. Acts as a binder and filler in tablet manufacturing. Used in sugar coating of tablets to improve taste and appearance. High concentration helps in preserving syrups by reducing microbial growth. Masks bitter taste of active ingredients. Provides quick energy source.
 - Dosage: Depends on formulation design, stability, and taste requirements.

Packaging

- Standard Packing: 50 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.



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* Specifications are based on the manufacturer's provided specifications.

