

SPECIFICATION

Product Name: Sucrose IP/BP Grade (20-80#)- Triveni 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	-	Passes the test	An orange precipitate is formed immediately.
Specific optical rotation	-	66.46	+65.9 to +67.0
Acidity or alkalinity	ml	Passes 0.17 ml	NMT 0.6 ml of 0.01 M NaOH should require to change color of solution to pink
Heavy metals	PPM	Complies the test	NMT 10 PPM
Calcium	-	Passes the test	Test solution should remain clear for at least 1 minute.
Barium	-	Passes the test	No opalescence on standing for 1 hr
Sulphite	-	Passes the test	Blue color develops

Glucose & invert sugar (Reducing sugar)	mg	22 mg of CuO	The weight of CuO should not more than 112 mg
Sulphated Ash	%	0.022%	NMT 0.10%
Coloring matter A	-	Passes the test	No unpleasant odor should be detectable after 1 Hr
Coloring matter B	-	Passes the test	Any fluorescence is not more than that of a solution containing 0.4µg/ml of quinine sulphate in 0.005 M sulphuric acid
Dextrin	-	Passes the test	Solution remains yellow or becomes faint bluish green
B. Other Requirements:			
Color	IU	19	Max. 30 IU
Loss on drying	%	0.041%	Max. 0.10%
Pol%	%	99.93	Min. 99.7 Degree Z
Sediment	mg/kg	2 mg/kg	Not more than 100 mg/kg, gravimetric insoluble
Total plate count	CFU	30 CFU	Not more than 200 CFU/10 gm
Yeast & Mould	CFU	<10 CFU	Less than 10 CFU/10 gm
Retained on BSS Mesh			
20#	%	2%	-

80#	%	97%	-
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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.

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