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Technical Data Sheet
Dextrose Monohydrate Food Grade

Product Identification

Product Name : Dextrose Monohydrate Food Grade
Chemical Name : D-Glucose Monohydrate
Synonyms : Glucose Monohydrate, D(+)-Glucose Monohydrate, Dextrose Hydrate, Corn Sugar Monohydrate, D-Glucose Hydrate
CAS No : 77938-63-7
Molecular Formula : $C_6H_{12}O_6 \cdot H_2O$
Molecular Weight : 198.17 g/mol
HS Code : 170230

Product Description

Dextrose Monohydrate Food Grade is a purified crystalline form of D-glucose obtained by the hydrolysis of starch followed by crystallization. It is a white, odorless, sweet-tasting crystalline powder with excellent water solubility. The product complies with Food Grade specifications and is widely used in the food, beverage, pharmaceutical, fermentation, confectionery, dairy, bakery, and nutraceutical industries.

Specifications

Sr. No.	Parameters	Specification
1	Description	A White Crystalline Powder
2	Solubility	Freely soluble in Water, very Soluble in Boiling water, and slightly soluble in Alcohol
3	Identification	A Copious red precipitate is formed with Potassium cupri-tartrate solution
4	% Assay	99.5 to 100.5 % of reducing sugar content (dextrose equivalent), expressed as D-glucose, calculated on the dried basis.
Impurities (Inorganic Impurity)		
5	Specific optical Rotation	+52.6°C to +53.2°C
6	Arsenic	1 ppm (Max.)
7	Lead	0.1 ppm (Max)
8	Chlorides	180 ppm (Max)
9	Sulfur Dioxide	20 ppm (Max)
Specific Tests		
10	Loss of Drying	10.00 % Max.
11	Residue on Ignition (Sulphated Ash)	0.1 % Max.
12	Starch	Absence of soluble Starch

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Additional test		
13	% retention on #30 Mesh	2% Max.
14	TAMC	1000 cfu/g
15	TYMC	100 cfu/g
16	E. coil	Absent /g
17	Salmonella	Absent /g
18	S. Auerus	Absent /g
19	Ps AREGEONSA	Absent /g

Applications:
Food and Beverage Industry, Confectionery Products, Bakery Products, Dairy Products, Pharmaceutical Formulations, Nutritional Supplements, Fermentation Industry, Beverage Manufacturing, Infant Nutrition, Animal Feed

Storage & Handling
Store in a cool, dry and well-ventilated place. Keep container tightly closed after use. Protect from moisture, direct sunlight and excessive heat. Maintain good housekeeping to minimize dust formation. Use clean, dry equipment during handling.

Packing
- 25 kg HDPE woven bag with food-grade inner liner.
- Jumbo Bags (500 kg / 1000 kg) available on request.
- Custom packaging available as per customer requirements.

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