Sorbitol

$C_6H_{14}O_6$ · CAS 50-70-4 · D-Glucitol, crystalline powder or aqueous solution

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
D-Glucitol, crystalline powder or aqueous solution	$C_6H_{14}O_6$	50-70-4	97.0–101.0% (HPLC-RI)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC-RI or HPLC with refractive index detection	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum · 250 kg drum for solution

DESCRIPTION

A sorbitol powder and 70% solution for humectancy, sugar-free bulk and tablet filling, specified by assay, moisture and the form that matches the process.

SWEETNESS

50–60% of sucrose, indicative

TASTE NOTE

Mild sweetness with a slight cooling effect and a soft mouthfeel; less sweet than xylitol.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (dried basis)	97.0–101.0% (HPLC-RI)	As stated
Appearance	White crystalline powder or granules	As stated
Moisture	≤1.0% (powder)	As stated
pH (5% solution)	4.5–7.0	As stated
Solubility	Freely soluble in water; hygroscopic	As stated
Particle size	≥95% through 60 mesh; granular on request	As stated
Bulk density	0.55–0.85 g/mL	As stated
Reducing sugars	≤0.2%	As stated
Heavy metals	Pb ≤0.5 · As ≤0.5 · Cd ≤0.5 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Marker / profile	Sorbitol 97.0–101.0%, reducing sugars ≤0.2%	Identity
Solubility	Freely soluble in water; strongly hygroscopic and used as a humectant as well as a sweetener.	Matrix dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
Starting use level	2–15% in confectionery, bakery and oral care, depending on the function	Application dependent
pH behaviour	Stable across normal food pH.	Matrix dependent

APPLICATIONS

- Confectionery
- Bakery
- Oral care
- Tabletting
- Beverages

AVAILABLE FORMS

- Powder, 60 mesh
- Granular
- 70% solution

PACKING

- 1 kg foil pouch
- 25 kg fiber drum
- 250 kg drum for solution

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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