Mannitol

$C_6H_{14}O_6$ · CAS 69-65-8 · D-Mannitol, crystalline powder or granules

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
D-Mannitol, crystalline powder or granules	$C_6H_{14}O_6$	69-65-8	98.0–101.0% (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

DESCRIPTION

A mannitol powder for tabletting, sugar-free chewing gum and bakery, specified by assay, particle size and the compactibility that decides a tablet.

SWEETNESS

50–70% of sucrose, indicative

TASTE NOTE

Mild sweetness with a cooling effect and a slightly dry mouthfeel; the tablet mouthfeel is grade-dependent.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (dried basis)	98.0–101.0% (HPLC-RI)	As stated
Appearance	White crystalline powder or granules	As stated
Moisture	≤0.5%	As stated
pH (5% solution)	5.0–7.5	As stated
Solubility	Soluble in water; less hygroscopic than sorbitol	As stated
Particle size	≥95% through 60 mesh; spray-dried on request	As stated
Bulk density	0.50–0.80 g/mL	As stated
Reducing sugars	≤0.1%	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	Mannitol 98.0–101.0%, reducing sugars ≤0.1%	Identity
Solubility	Soluble in water; low hygroscopicity and a cooling effect, with good tablet compaction in the right grade.	Matrix dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
Starting use level	5–30% in tabletting and chewing gum, depending on the function	Application dependent
pH behaviour	Stable across normal food pH.	Matrix dependent

APPLICATIONS

- Tabletting
- Chewing gum
- Bakery
- Confectionery
- Oral care

AVAILABLE FORMS

- Crystal, 30–60 mesh
- Powder, 80 mesh
- Spray-dried on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

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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