Maltitol

$C_{12}H_{24}O_{11}$ · CAS 585-88-6 · Maltitol, crystalline powder or granules

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Maltitol, crystalline powder or granules	$C_{12}H_{24}O_{11}$	585-88-6	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 99% maltitol crystal with a sweetness close to sucrose, for sugar-free chocolate, bakery and confectionery where browning and mouthfeel matter.

SWEETNESS

90% of sucrose, indicative

TASTE NOTE

Close to sucrose with a soft mouthfeel and little cooling; the sweetness can carry a slight malt note.

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	≤1.0%	As stated
pH (5% solution)	4.5–7.0	As stated
Solubility	Freely soluble in water	As stated
Particle size	≥95% through 60 mesh; granular on request	As stated
Bulk density	0.55–0.85 g/mL	As stated
Other polyols	≤1.0% (HPLC)	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	Maltitol 98.0–101.0%, other polyols ≤1.0%	Identity
Solubility	Freely soluble in water; less cooling than erythritol or xylitol.	Matrix dependent
Starting use level	5–30% in chocolate and confectionery, depending on the sugar replacement	Application dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
pH behaviour	Stable across normal food pH.	Matrix dependent

APPLICATIONS

- Chocolate
- Confectionery
- Bakery
- Tabletop
- Ice cream

AVAILABLE FORMS

- Crystal, 30–60 mesh
- Granular
- Powder, 80 mesh
- Syrup 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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