Xylitol

$C_5H_{12}O_5$ · CAS 87-99-0 · Xylitol, crystalline polyol

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Xylitol, crystalline polyol	$C_5H_{12}O_5$	87-99-0	98.5–101.0% (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% xylitol crystal with a sucrose-like sweetness and a strong cooling effect, for confectionery, oral care and tabletop.

SWEETNESS

90–100% of sucrose, indicative

TASTE NOTE

Sweetness close to sucrose with a strong cooling effect and a clean finish; the cooling can dominate at high dose.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (dried basis)	98.5–101.0% (HPLC-RI)	As stated
Appearance	White crystalline powder or granules	As stated
Moisture	≤0.5%	As stated
pH (5% solution)	5.0–7.0	As stated
Solubility	Freely soluble in water; endothermic dissolution	As stated
Particle size	≥95% through 60 mesh; 80 mesh on request	As stated
Bulk density	0.55–0.85 g/mL	As stated
Other polyols	≤0.5% (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	Xylitol 98.5–101.0%, other polyols ≤0.5%	Identity
Solubility	Freely soluble in water; strongly endothermic, with a cooling effect that is more pronounced than erythritol's.	Matrix dependent
Starting use level	2–10% in confectionery, oral care and tabletop, depending on the sweetness target	Application dependent
pH behaviour	Stable across normal food pH.	Matrix dependent

APPLICATIONS

- Chewing gum
- Confectionery
- Tabletop
- Oral care
- Beverages

AVAILABLE FORMS

- Powder, 60 mesh
- Powder, 80 mesh
- Granular
- Liquid 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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