Isomalt

1,6-GPS and 1,1-GPM mixture · CAS 64519-82-0 · Isomalt, crystalline granules or powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Isomalt, crystalline granules or powder	1,6-GPS and 1,1-GPM mixture	64519-82-0	≥98.0% (HPLC-RI)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC-RI with the GPS/GPM ratio	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

An isomalt for sugar-free hard candy and baked goods, specified by the GPS/GPM ratio, moisture and particle size for moulding and conching.

SWEETNESS

45–60% of sucrose, indicative

TASTE NOTE

Mild sweetness with little cooling and a clean finish; the sweetness is lower than maltitol or xylitol.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Isomalt content	≥98.0% (HPLC-RI)	As stated
1,6-GPS : 1,1-GPM	43–57 : 43–57 (HPLC)	As stated
Appearance	White crystalline granules or powder	As stated
Moisture	≤0.5%	As stated
pH (10% solution)	4.5–7.0	As stated
Solubility	Soluble in water; low hygroscopicity	As stated
Particle size	≥95% through 40 mesh; powder on request	As stated
Bulk density	0.60–0.90 g/mL	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	Isomalt ≥98%, GPS/GPM ratio 43–57 : 43–57	Identity
Solubility	Soluble in water; low hygroscopicity makes it useful in hard candy and dusty environments.	Matrix dependent
Starting use level	10–50% in sugar-free hard candy, depending on the recipe	Application dependent

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

APPLICATIONS

- Sugar-free hard candy
- Tabletop
- Bakery
- Chocolate
- Chewing gum

AVAILABLE FORMS

- Granules, 20–40 mesh
- Powder, 80 mesh
- Milled 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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