Lactulose 70% Syrup

$C_{12}H_{22}O_{11}$ · CAS 4618-18-2 · Lactulose 70% syrup

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Lactulose 70% syrup	$C_{12}H_{22}O_{11}$	4618-18-2	≥70.0% (HPLC-RI)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC-RI	1 kg	3–10 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A lactulose 70% syrup for food and specialty carbohydrate use, with the solids, sugar profile and viscosity stated.

SWEETNESS

30–50% of sucrose, indicative

TASTE NOTE

Mild sweetness with body; at higher doses a slight caramel note.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Lactulose (dry basis)	≥70.0% (HPLC-RI)	As stated
Solids	70.0–75.0% (refractometer)	As stated
Appearance	Colourless to light yellow syrup	As stated
pH (10% solution)	3.0–5.0	As stated
Ash	≤0.1%	As stated
Solubility	Miscible with water	As stated
Viscosity	Specified at 25 °C	As stated
Other sugars	≤5.0% (HPLC-RI)	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	Lactulose ≥70%, solids 70–75%	Identity
Solubility	Miscible with water; supplied as a syrup.	Matrix dependent
Starting use level	1–10% in food and specialty carbohydrate systems, depending on the application	Application dependent
pH behaviour	Stable at mildly acidic pH; very low pH and heat increase hydrolysis.	Matrix dependent

APPLICATIONS

- Specialty foods
- Supplements
- Confectionery
- Dairy
- Beverages

AVAILABLE FORMS

- Syrup 70%
- Powder 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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