Raffinose 98%

$C_{18}H_{32}O_{16}$ · CAS 512-69-6 · Raffinose pentahydrate, crystalline powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Raffinose pentahydrate, crystalline powder	$C_{18}H_{32}O_{16}$	512-69-6	≥98.0% (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 98% raffinose for soluble oligosaccharide and specialty carbohydrate use, with the hydrate and sugar profile stated.

SWEETNESS

20–30% of sucrose, indicative

TASTE NOTE

Mild sweetness with a clean finish; the oligosaccharide note is subtle.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Raffinose (dry basis)	≥98.0% (HPLC-RI)	As stated
Appearance	White crystalline powder	As stated
Moisture	≤5.0%	As stated
pH (10% solution)	4.5–7.0	As stated
Solubility	Soluble in water	As stated
Particle size	≥95% through 80 mesh	As stated
Ash	≤0.3%	As stated
Other sugars	≤1.0% (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	Raffinose ≥98%	Identity
Solubility	Soluble in water; a clean, low-viscosity solution.	Matrix dependent
Starting use level	0.5–5% in beverages and supplements, depending on the fibre target	Application dependent
pH behaviour	Stable across normal food pH.	Matrix dependent

APPLICATIONS

- Beverages
- Supplements
- Dairy
- Confectionery
- Bakery

AVAILABLE FORMS

- 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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