Sucralose

$C_{12}H_{19}Cl_3O_8$ · CAS 56038-13-2 · Trichlorogalactosucrose, crystalline powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Trichlorogalactosucrose, crystalline powder	$C_{12}H_{19}Cl_3O_8$	56038-13-2	98.0–102.0% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC with refractive index or UV detection	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A high-purity sucralose powder for beverages, dairy and tabletop, specified by assay, related substances and particle size, with the form chosen for the line.

SWEETNESS

400–600 × sucrose, indicative

TASTE NOTE

Clean, sucrose-like onset with a slight lingering sweetness; the tail is shorter than saccharin but longer than aspartame.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (dried basis)	98.0–102.0% (HPLC)	As stated
Related substances	≤2.0% (HPLC)	As stated
Appearance	White to off-white crystalline powder	As stated
Moisture	≤1.0%	As stated
pH (10% solution)	5.0–7.0	As stated
Solubility	Freely soluble in water	As stated
Particle size	≥95% through 80 mesh; micronized on request	As stated
Bulk density	0.50–0.80 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	Sucralose 98.0–102.0%, related substances ≤2.0%	Identity
Solubility	Freely soluble in water; clear solutions at use levels.	Matrix dependent
Starting use level	0.005–0.05% in beverages, depending on the target sucrose equivalence	Application dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
pH behaviour	Stable across pH 3–7; hydrolysis increases at very low pH and high temperature.	Matrix dependent

APPLICATIONS

- Beverages
- Dairy
- Tabletop
- Bakery
- Confectionery

AVAILABLE FORMS

- Powder, 80 mesh
- Micronized
- 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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