Acesulfame Potassium

$C_4H_4KNO_4S$ · CAS 55589-62-3 · Acesulfame potassium salt, crystalline powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Acesulfame potassium salt, crystalline powder	$C_4H_4KNO_4S$	55589-62-3	99.0–101.0% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC with UV detection	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A 99% acesulfame potassium powder for beverage and tabletop blends, specified by assay, potassium content and particle size for the line.

SWEETNESS

180–200 × sucrose, indicative

TASTE NOTE

Fast onset with a bitter, metallic linger at higher doses; rarely used alone in a clean-finish beverage.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (dried basis)	99.0–101.0% (HPLC)	As stated
Potassium (K)	17.0–19.0% (titration)	As stated
Appearance	White crystalline powder	As stated
Moisture	≤1.0%	As stated
pH (1% solution)	5.5–7.5	As stated
Solubility	Freely soluble in water	As stated
Particle size	≥95% through 80 mesh	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	Ace-K 99.0–101.0%, potassium 17.0–19.0%	Identity
Solubility	Freely soluble in water; solutions are neutral to slightly alkaline.	Matrix dependent
Starting use level	0.005–0.05% in beverages, depending on the blend	Application dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
pH behaviour	Stable across pH 3–7; the potassium salt remains ionised in solution.	Matrix dependent

APPLICATIONS

- Beverages
- Tabletop
- Confectionery
- Bakery
- Dairy

AVAILABLE FORMS

- Powder, 80 mesh
- Granular
- Micronized

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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