

5.4.1 Product Specification Food Grade

Please contact Celanese Sales Germany GmbH for the official product specification documents.

Sunett® - Food Grade - Chemical and physical properties

Synonyms	Acesulfame potassium salt (Acesulfame K)
Definition	
Chemical name:	Potassium salt of 6-methyl-1,2,3-oxathiazin-4(3H)-one-2,2-dioxide
CAS number:	55589-62-3
E number:	E 950
EINECS number:	259-715-3
Chemical formula:	C ₄ H ₄ NO ₄ SK
Relative molecular mass:	201.24
Description	
	Odourless, white, crystalline powder having an intensively sweet taste Approximately 200 times as sweet as sucrose. Very soluble in water (approx. 270 g/L at 20 °C); less soluble in acetone (approx. 0.8 g/L at 20 °C) and ethanol (approx. 1 g/L at 20 °C).
Identification	
Ultra-violet absorption:	UV-Maximum 227 ± 2 nm (solution of 0.01 g/L in water)
Test for potassium:	Positive
Purity	
Assay:	99.5 % to 100.5 % of C ₄ H ₄ NO ₄ SK, on dry weight basis
Loss on drying:	Not more than 0.2 % (105 °C, 2 hours)
pH-value:	5.5 - 7.5 (1 % water solution)
Assay of potassium:	17 % - 21 %
5-Cl-Acesulfame K	Not more than 2 ppm
Organic Impurities	Not more than 20 ppm of UV active components
Filtration test:	No residues (100g dissolved in 1000 mL water / filtration over 0.45 µm membrane filter)
Heavy metals:	Not more than 5 ppm (expressed as lead)
Lead:	Not more than 0.1 ppm
Arsenic:	Not more than 0.1 ppm
Cadmium	Not more than 0.1 ppm
Selenium:	Not more than 0.2 ppm
Mercury	Not more than 0.01 ppm
Fluoride:	Not more than 1 ppm
Sulphate:	Not more than 20 ppm
Particle size distribution	
Type A:	Min. 95 % smaller than 1000 microns
Type B:	Min. 95 % smaller than 600 microns
Type C:	Min. 95 % smaller than 355 microns
Type D:	Min. 95 % smaller than 100 microns
Shelf life	
	5 years from date of manufacture provided that the product is stored in the originally closed packaging protected from sunlight, at ambient temperature (max. 30 °C) and dry (max. 65 % relative humidity) conditions

Sunett® (Acesulfame K) conforms also to the specifications published by FAO/WHO/CODEX/JECFA, those of the US Food Chemicals Codex, of the JBFA and/or the EC. Any existing legal restrictions for the use in foods, drugs and cosmetics must be observed by users of Sunett®.

The information presented herein is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It must not be construed as guaranteeing specific properties of the products described herein or their suitability for a particular application. The user of Sunett® is solely responsible for investigating whether existing patents are infringed by the use of Sunett®. Additionally, the user is solely responsible for investigating and checking the regulatory approval status with respect to any intended use of Sunett®. Any sales and/or the deliveries of Sunett® are always subject to our General Terms and Conditions, unless otherwise agreed between the parties in writing. Any reference to laws, regulations, standards, guidelines etc. refers to such laws, regulations, standards, guidelines etc. as in force and effect as the date of this document.

® = registered trademark

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Sunett
 Brand Sweetener