

Ascorbic Acid

Product code	SPASC
Available formats	SPASC50 · 50 g · Stand-UP SPASC250 · 250 g · Stand-UP SPASC500 · 500 g · Stand-UP SPASC1000 · 1 kg · Bag
Origin	Extra EU (China)
Country of packaging	Italy

The product

White crystalline powder, pure ascorbic acid (E300), obtained from sorbitol through fermentation process (Pseudomonas, Acetobacter suboxydans) and chemical synthesis.

Ingredients

100% Ascorbic acid (E300)

Usage and dosage

Ice cream and sorbets — Indicative dosage: 0.01-0.05 %; base: total weight of the sorbet or ice cream mix. fruit sorbet/antioxidant treatment to prevent color changing; reason: low initial dose for testing; check color stability, taste impact, and behavior on freezing.

Pastry — Indicative dosage: 0.01-0.05 %; base: total weight of the dough or cream preparation. example: custard cream; reason: oxidation control and color stabilization; check interactions with sugars, structure and shelf-life.

Bakery — Indicative dosage: 0.01-0.05 %; base: total weight of the dough. example: sweet bread or panettone; reason: antioxidant to preserve freshness, delay rancidity; check crumb, volume, shelf-life.

Beverages — Indicative dosage: 0.02-0.1 %; base: total volume of the beverage. example: fruit-based drink or juice; reason: antioxidant and color stabilizer; check flavor, instability, interactions with acids, viscosity.

Confectionery — Indicative dosage: 0.01-0.05 %; base: total weight of confectionery mass or icing. example: fruit-based sugar almonds or pralines; reason: preservation of pale/fruit color; check impact on flavor, visual stability, crystallization.

Sauces and preparations — Indicative dosage: 0.02-0.1 %; base: total weight of prepared sauce. example: tomato-based sauce; reason: color protection, prevention of oxidation; check viscosity, taste, microstructural stability.

Shelf life

Up to 36 months from production date if stored in a cool, dry place.

Storage

Store in a cool, dry place. After each use, reseal the package and keep in a clean, cool environment. Handle only with perfectly clean and dry tools. Before each use, check the preservation state.

Packaging materials

bag: LDPE90 label: PAP22

Environmental indications

PLASTIC. Check your local municipal guidelines. It is declared that the materials used for the product packaging are in accordance with European Union regulations, and suitable for direct food contact. The original declaration of compliance is available upon request.

Declarations

NON-GMO: this product does not contain, is not composed of, and is not obtained from genetically modified organisms, in accordance with Regulation EC 1829/2003 and Regulation EC 1830/2003 and subsequent amendments. Product is not hazardous under normal conditions of use.

PESTICIDES AND CONTAMINANTS: compliant with Regulation EC 396/2005 for maximum residue levels (MRLs) of pesticides and with Regulation EU 915/2023 for the presence of heavy metals, mycotoxins and process contaminants.

ADDITIVES AND PURITY CRITERIA: The product is a food additive (E300) compliant with the general provisions and marketing requirements laid out in Regulation EC 1333/2008 and meets the specific purity criteria established by Regulation EU 231/2012.

GLUTEN FREE: in accordance with Regulation EC 828/2014 it can be labelled as "Gluten free" as the product may contain accidental gluten contamination up to a maximum of 20 mg/kg.

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Nutritional information

Parameter / component	Amount	Basis	% NRV
Energy	1287 kJ	Per 100 g	—
Energy	297 kcal	Per 100 g	—
Fat	0,0 g	Per 100 g	—
of which saturates	0,0 g	Per 100 g	—
Carbohydrates	0,0 g	Per 100 g	—
of which sugars	0,0 g	Per 100 g	—
Fibre	0,0 g	Per 100 g	—
Protein	0,0 g	Per 100 g	—
Salt	0,0 g	Per 100 g	—
Vitamin C	100000 mg	Per 100 g	—

NRV: reference nutritional values, based on indicated basis. These do not represent product purity.

Analysis and specific parameters

Category / parameter	Specification	Unit	Method
Chemical-physical pH (2% aqueous solution)	2.4 – 2.8		
Chemical-physical pH (5% aqueous solution)	2.1 – 2.6		
Chemical-physical Assay	99 - 100,5	%	
Chemical-physical Loss on drying	<0,4	%	
Chemical-physical Sulfated ash	<0.1	%	
Chemical-physical Oxalic acid	<0.2	%	

Category / parameter	Specification	Unit	Method
Heavy metals Total heavy metals	<10	ppm	
Heavy metals Copper	<5	ppm	
Heavy metals Iron	<2	ppm	
Heavy metals Mercury	< 0.005	mg/kg	
Heavy metals Lead	<0.010	mg/kg	
Heavy metals Arsenic	< 0.010	mg/kg	
Heavy metals Cadmium	< 0.010	mg/kg	
Chemical-physical Specific optical rotation	+20.5 +21.5	°	
Chemical-physical Volatile organic impurities	Absent		
Chemical-physical Solution color	≤BY7		
Chemical-physical Solution clarity	Clear		

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Allergens and derivative products

Presence in the product, in the facility, and risk of cross-contamination are separate pieces of information. “To be verified” does not indicate absence.

Category	In the product	In the facility	Risk of cross-contamination
Cereals containing gluten	No	No	No
Crustaceans	No	No	No
Eggs	No	No	No
Fish	No	No	No
Peanuts	No	No	No
Soy	No	No	No
Milk (including lactose)	No	Yes	Yes
Nuts	No	No	No
Celery	No	No	No
Mustard	No	No	No
Sesame seeds	No	No	No
Sulphur dioxide and sulphites	No	No	No
Lupin	No	No	No
Molluscs	No	No	No

Allergen clarifications

May contain traces of MILK due to packaging in a facility handling MILK and derivatives.

Further information

The indications given in this data sheet, while accurate and prepared to the best of our current knowledge, are for informational purposes only and exempt Gioia Group s.r.l. from any liability regarding improper use of the referenced product.