

Technical Data Sheet

Version: 1.0 EN

Ascorbic acid – Vitamin C E300

Article number: D10134

General Information

Origin	Ascorbic acid is a water-soluble vitamin that is necessary for many important functions in the body. It acts as an antioxidant, supports the immune system, helps in the formation of collagen (important for skin, bones and connective tissue) and improves the absorption of iron from plant foods. As the body cannot produce ascorbic acid itself, it must be supplied.
CAS Number	50-81-7
EC Number	200-066-2
INCI	ASCORBIC ACID
Chemical name	L(+)-ascorbic acid
Molecular Formula	C ₆ H ₈ O ₆
Appearance	White, crystalline powder
Packaging	25 kg bags and small containers
Shelf life	48 months
Applications	Application in food
Allergens	None of the 14 main allergens added or contained
Compliance	FCC; USP; E300; Regulation (EU) 1169/2011

Specification Values

Parameter	Value
Content	99,0 - 100,5
Melting point	Approx. 190°C
Solubility	Freely soluble in water, slightly soluble in ethanol, insoluble in chloroform
Loss on drying	≤ 0,1 %
pH value (5%, W/V)	2,1 - 2,6
Specific rotation [α] _{D25}	+20,5 – +21,5°
Heavy metals	≤ 10 mg/kg

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copper	≤ 5 mg/kg
Iron	≤ 2 mg/kg
Cadmium	≤ 1 mg/kg
Arsenic	≤ 1 mg/kg
Lead	≤ 1 mg/kg
Mercury	≤ 1 mg/kg
Total bacterial count	≤ 1000 CFU/g
Yeast and molds	≤ 100 cfu/g
E. coli	Negative
Salmonella	Negative

Nutritional Values

	Average Values (per 100g / 100ml)
Energy (kJ)	0
Energy (kcal)	0
Fat (g)	0
- Of which saturated fats (g)	0
Carbonhydrates (g)	0
- Of which sugars (g)	0
Fibre (g)	0
Protein (g)	0
Salt (g)	0

Additional Information

All details are based on our current state of knowledge and are not transferable to other products. They do not constitute a warranty or guarantee of specific properties or suitability for particular applications. Each use of our supplied products must be tested in the respective application and checked for any existing property rights. Color and form of the product may slightly vary within a production batch due to the manufacturing process.

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