

C-vitamin, monophosphate 35%

Identification

Chemical name	Sodium calcium L-ascorbyl phosphate	CAS-No:	66170-10-3
Chemical formula	C ₆ H ₉ O ₉ P • CaNa	EC no:	
Molecular weight	256,11 g/mol		

EC Registration

Feed Additive	Community Reg. of Feed Additives, (EC) No 1831/2003 (EU) 2015/1061 Ascorbic acid, ascorbyl phosphate as feed additives
Additive reg.	3a312 Vitamin C / Sodium calcium ascorbyl phosphate

Specification, nutrients

Additive/nutrient	Content	Analytical method
Ascorbic acid activity	35 % min.	Na Ca ascorbyl phosphate and the ascorbic acid equivalent: High- Performance Liquid Chromatography coupled to Variable Wavelength Detector (VWD). Total calcium and total sodium in the feed additive: Atomic Absorption Spectrometry, AAS (EN ISO 6869:2000), or Inductively Coupled Plasma Atomic Emission Spectrometry, ICP-AES (EN15510:2007).
Loss of drying	7 % max	

Physical specifications

Composition	Sodium- calcium-L-ascorbyl phosphate, solid form, produced by chemical synthesis.
Purity criteria	Min. 95 %
Appearance	Free fluent granules/powder. Non hygroscopic.
Partikel size	0,1 – 0,85 mm: > 90% of particles. (<i>mesh/sieve no: 115/120 - 20/20</i>)
Shelf life	Min. 2 years from production date. Min. 12 months left at date of delivery.
Certificate	Certificate of analysis on each batch in every delivery.

Microbiology

Total cell counts:	max. 10000 CFU/g	Escherichia coli:	Negative
Salmonella:	Negative		

Undesirable substances

Compliance with EU Directive 2002/32/EC, Commission regulations (EU) no 574/2011, and Commission regulations (EU) No 277/2012.

Substance	Max. content	EU legislation	Comment
Arsenic	1,2 ppm	2 ppm	
Cadmium, Cd	0,6 ppm	1 ppm	
Lead, Pb	7 ppm	10 ppm	
Mercury, Hg	0,06 ppm	0,1 ppm	
Dioxins, PCDDs and PCDFs ¹⁾	0,5 ng/kg	0,75 ng/kg	WHO-PCDD/F-TEQ/kg ²⁾
Dioxin-like PCBs ¹⁾	0,35 ng/kg	0,5 ng/kg	WHO-PCDD/F-PCB-TEQ/kg (ppt) ²⁾
Non dioxin-like PCBs ³⁾	6 µg/kg	10 µg/kg	ICES – 6 ²⁾

¹⁾ Dioxins: Sum of polychlorinated dibenzo-*para*-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs)

Dioxin-like PCBs: Polychlorinated biphenyls (PCBs). WHO-TEFs (toxic equivalency factors), 2005

²⁾ Upper-bound concentrations. Relative to a feed with a moisture content of 12 %

³⁾ Sum of PCB 28, PCB 52, PCB 101, PCB 138, PCB 153 and PCB 180