

TECHNICAL DATA SHEET

Effective date: 04.2019
Rev.1

Vitamin C Ascorbyl

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Ascorbyl palmitate
Chemical name	2,3-didehydro-L-threo-hexono-1,4-lactone-6-palmitate
Chemical formula	C ₂₂ H ₃₈ O ₇
Manufacturing process	Ascorbyl palmitate is prepared by esterification with palmitic acid. Purification of ascorbyl palmitate by recrystallization.
Raw material category	Antioxidant
E No.	E 304
Molecular mass	414.54 g/mol

TECHNICAL DATA

Physical parameters

Appearance	Solid, powder
Color	White to yellowish white
Odor	Characteristic
Clarity of a solution 10 % in methanol	Clear
Specific rotation (589 nm, 20°C, dried)	+21.0 to +24.0
Melting range	107.0 - 117.0 °C
Loss on drying	max. 1.00 %
Sulphated ash (residue on ignition)	0.1%
Solubility	practically insoluble in water. It is soluble in ethanol (approx. 10 g per 100 mL) and in plant oils (approx. 30 mg per 100 mL)

Chemical parameters

Assay	98.0–100.5%
Heavy Metals	max. 10 ppm
Lead	max. 2 ppm
Mercury	max. 1 ppm
Zinc	Max. 25 ppm

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Copper	Max. 25 ppm
Arsenic	Max. 3 ppm

Residual solvents

Acetone	Max. 500 ppm
Petroleum ether	Max. 290 ppm
Mesityl oxide	max. 50 ppm

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in closed containers at a temperature below 25 °C, keep dry and avoid humidity.
Shelf Life	5 years, in closed packaging and the recommended conditions.
Custom tariff	-

LEGISLATION

Certification	-
EINECS	205-305-4
CAS	137-66-6
REACH Registration no.	-

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