



Specification

Concerning Product:	
Article number	50817TLEU
Trade name / designation / denomination	Ascorbinsäure EP/BP/USP/FCC/E300 Ascorbic acid / Vitamin C
CAS number	50-81-7
Other names / synonyms	•2-(1,2-dihydroxyethyl)-4,5-dihydroxy-3-furanone; •Vitamin C; •ascorbic acid;
EC number	200-066-2
Customs tariff number / CN code / TARIC	29362700
Molecular weight [g / mol]	176.12
Formula	C ₆ H ₈ O ₆

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution	EP	clear, color ≤ BY7	
Appearance		white crystalline powder	
Physical parameter			
Loss on drying	E 300	≤ 0,4	%
pH value	E 300	(2% in H ₂ O) 2,4 – 2,8	
pH value	EP	(5% in H ₂ O) 2,1 – 2,6	
Specific Optical Rotation	USP	+20,5° ~ +21,5°	
Melting range	EP	~ 190	°C
Identity			
Assay	USP	99,0 – 100,5	%
Identification	USP	positive	
Impurities			
Residue on ignition	USP	* ≤ 0,1	%
Heavy Metals (as Pb)	USP	≤ 3	ppm
Impurity	USP	C: * ≤ 0,15	%
Impurity	USP	D: * ≤ 0,15	%
Impurity	EP	E: * ≤ 0,2	%
Related substances	EP	Any Other Unspecific Impurities Impurity ≤ 0.10% Total Impurity ≤ 0.2% *	% [w/w]

Elemental Impurities			
Arsenic (As)	USP	* ≤ 1	ppm
Cadmium (Cd)		* ≤ 1	ppm
Copper (Cu)	EP	* ≤ 2	ppm
Iron (Fe)	EP	* ≤ 2	ppm
Mercury (Hg)	E 300	* ≤ 0,1	ppm
Lead (Pb)	FCC	* ≤ 1	ppm
Organic volatile impurities			
Methanol	USP	* ≤ 3000	ppm
Microbiological data			
Total Plate Count		* ≤ 1000	CFU/g

Annotation:

*: Periodically tested

Supplemental information:

Shelf life: 36 month

Storage conditions: Store in a non-metallic container, protected from light. Upon opening, use the product as quickly as possible.

Complies with monographie: BP2021/USP43/FCC12/EP10/E300

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 06. Aug. 2024

LF-Basis: 2023-10001 (2023-01-01)

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