



Spezifikation

Produktbezug:	
Produktnummer	50817TLEU
Handelsname / Bezeichnung	Ascorbinsäure EP/BP/USP/FCC/E300 Ascorbic acid / Vitamin C
CAS Nummer	50-81-7
Andere Bezeichnungen / Synonyme	•2-(1,2-dihydroxyethyl)-4,5-dihydroxy-3-furanone; •3-Oxo-L-gluconsäure-gamma-lacton; •Ascorbinsäure; •L(+)-Ascorbinsäure; •Vitamin C; •ascorbic acid;
EG Nummer	200-066-2
Zolltarifnummer / CN-Code	29362700
Molekulargewicht [g/mol]	176.12
Formel	C ₆ H ₈ O ₆

Parameter	Test Method	Specification	Unit
Sensorische Prüfung			
Aussehen der Lösung	EP	klar, Farbe ≤ BY7	
Aussehen		weißes, kristallines Pulver	
Physikalische Parameter			
Trocknungsverlust	E 300	≤ 0,4	%
pH-Wert	E 300	(2% in H ₂ O) 2,4 – 2,8	
pH-Wert	EP	(5% in H ₂ O) 2,1 – 2,6	
Spezifische optische Drehung	USP	+ 20,5° ~ + 21,5°	
Schmelzbereich	EP	~ 190	°C
Identifikation			
Gehalt	USP	99,0 – 100,5	%
Identifizierung	USP	positive	
Verunreinigungen			
Glührückstand	USP	* ≤ 0,1	%
Schwermetalle (als Pb)	USP	≤ 3	ppm
Verunreinigung	USP	C: * ≤ 0,15	%
Verunreinigung	USP	D: * ≤ 0,15	%
Verunreinigung	EP	E: * ≤ 0,2	%
Verwandte Substanzen	EP	Alle anderen unspezifischen Verunreinigungen ≤ 0.10% Ingesamte Verunreinigungen ≤ 0.2% *	% [w/w]

Elementare Verunreinigungen			
Arsen (As)	USP	* ≤ 1	ppm
Cadmium (Cd)		* ≤ 1	ppm
Kupfer (Cu)	EP	* ≤ 2	ppm
Eisen (Fe)	EP	* ≤ 2	ppm
Quecksilber (Hg)	E 300	* ≤ 0,1	ppm
Blei (Pb)	FCC	* ≤ 1	ppm
Organische flüchtige Verunreinigungen			
Methanol	USP	* ≤ 3000	ppm
Mikrobiologische Daten			
Gesamtkeimzahl		* ≤ 1000	CFU/ g

Anmerkung:

*: Periodisch getestet

Zusätzliche Angaben:

Mindesthaltbarkeit: 36 Monate

Lagerbedingungen: In einem nichtmetallischen Behälter, vor Licht geschützt, aufbewahren. Verwenden Sie das Produkt nach dem Öffnen so schnell wie möglich.

Entspricht der Monographie: BP2021/USP43/FCC12/EP10/E300

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 06. Aug. 2024

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