



## Spezifikation

Produktbezug:	
Produktnummer	50817TLV
Handelsname / Bezeichnung	L-Ascorbinsäure (Vitamin C), E 300, Pulv
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 <sub>6</sub> H <sub>8</sub> O <sub>6</sub>

Parameter	Methode	Spezifikation	Einheit
<b>Sensorische Prüfung</b>			
Aussehen der Lösung		klar	
Aussehen		weißes oder fast kristallines Pulver oder farblose Kristalle	
Farbe		≤ BY7	
<b>Physikalische Parameter</b>			
Trocknungsverlust		≤ 0,1	%
pH-Wert	@ 5% W/V	2,1 – 2,6	
pH-Wert	@ 2% W/V	2,4 – 2,8	
Spezifische optische Drehung		20,5 – 21,5	°
Löslichkeit		In Wasser gut löslich, in Ethanol schwer löslich, in Chloroform unlöslich	
<b>Identifikation</b>			
Gehalt		99,0 – 100,5	%
Identifizierung	B	IR	
Identifizierung	A	positive Reaktion	
Schmelzpunkt (Identität)		~ 190	°C

<b>Verunreinigungen</b>			
Glührückstand		≤ 0,1	%
Schwermetalle (als Pb)		≤ 10	ppm
Verunreinigung	nicht spezifiziert	≤ 0,10	%
Verunreinigung	D	≤ 0,15	%
Verunreinigung	C	≤ 0,15	%
Verunreinigung	E	≤ 0,2	%
<b>Restlösemittel</b>			
Restlösemittel		erfüllt die Anforderungen	
<b>Elementare Verunreinigungen</b>			
Arsen (As)	ICP-MS	≤ 1	ppm
Cadmium (Cd)	ICP-MS	≤ 1	ppm
Kupfer (Cu)		≤ 5	ppm
Eisen (Fe)		≤ 2	ppm
Quecksilber (Hg)	ICP-MS	≤ 1	ppm
Blei (Pb)	ICP-MS	≤ 1	ppm
Zink (Zn)		≤ 25	ppm
<b>Mikrobiologische Daten</b>			
Escherichia Coli.		neg. in 1 g	
Salmonellen		neg. in 25g	
Staphylococcus Aureus		neg. in 25g	
Gesamtkeimzahl		≤ 1000	CFU/g
Schimmel und Hefe		≤ 100	CFU/g

### **Zusätzliche Angaben:**

**Entspricht der Monographie: BP2020/EP9.0/USP42/FCC11/E300**

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 12. Aug. 2020

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