



Spezifikation

Produktbezug:	
Produktnummer	5785444MPUL
Handelsname / Bezeichnung	Tri-Calciumcitrat-4-hydrat, USP, FCC, E
CAS Nummer	5785-44-4
Andere Bezeichnungen / Synonyme	•Calcium citrate tetrahydrate; •Calcium citrate tetrahydrate micronised; •Tri-Calciumcitrat-4-hydrat; •Tri-Calciumcitrat-4-hydrat mikronisiert; •tricalcium 2-hydroxypropane-1,2,3-tricarboxylate tetrahydrate;
EG Nummer	
Molekulargewicht [g/mol]	570.49452
Formel	C ₁₂ H ₁₈ Ca ₃ O ₁₈

Parameter	Specification	Unit
Sensorische Prüfung		
Aussehen	feines weißes Pulver	
Geruch	geruchlos	
Physikalische Parameter		
Unlösliche Anteile	in Säure: ≤ 0,2	%
Trocknungsverlust	10,0 – 13,3	%
Identifikation		
Gehalt	(o.d.b.)* 98,0 – 100,5	%
Identifizierung	A, B: entspricht	
Verunreinigungen		
Schwermetalle (als Pb)	≤ 5	ppm
Oxalate (als wasserfreie Oxalsäure)	≤ 100	ppm
Verunreinigung	CO ₃ : entspricht	
Restlösemittel		
Restlösemittel	entspricht	
Elementare Verunreinigungen		
Aluminium (Al)	≤ 30	ppm
Arsen (As)	≤ 1	ppm
Cadmium (Cd)	≤ 1	ppm
Fluor (F)	≤ 0,003	%
Quecksilber (Hg)	≤ 1	ppm
Blei (Pb)	≤ 1	ppm

Mikrobiologische Daten		
Escherichia Coli.	neg.	/g
Gram-negative Bakterien	≤ 100	CFU/g
Salmonellen	neg.	/10 g
Staphylococcus Aureus	neg.	/g
Gesamtkeimzahl	≤ 1000	CFU/g
Schimmel und Hefe	≤ 100	CFU/g
Partikelgrößenverteilung		
Partikel	100 - 180 Mesh ≥ 80	%

Anmerkung:

o.d.b. = on dried basis / auf getrockneter Basis

Zusätzliche Angaben:

Mindesthaltbarkeit: 2 Jahre

Entspricht der Monographie: USP, FCC, E 333(iii)

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 14. Jul. 2025

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