



Specification

Concerning Product:	
Article number	5785444MPUL
Trade name / designation / denomination	Tri-Calciumcitrat-4-hydrat, USP, FCC, E
CAS number	5785-44-4
Other names / synonyms	•Calcium citrate tetrahydrate; •Calcium citrate tetrahydrate micronised; •tricalcium 2-hydroxypropane-1,2,3-tricarboxylate tetrahydrate;
EC number	
Molecular weight [g / mol]	570.49452
Formula	C ₁₂ H ₁₈ Ca ₃ O ₁₈

Parameter	Specification	Unit
Organoleptic test		
Appearance	fine, white powder	
Odour	odourless	
Physical parameter		
Loss on drying	10,0 – 13,3	%
Identity		
Assay	(o.d.b.)* 98,0 – 100,5	%
Identification	A, B: complies	
Impurities		
Heavy Metals (as Pb)	≤ 5	ppm
Insoluble impurities	in acid: ≤ 0,2	%
Oxalate (as anhydros Oxalic Acid)	≤ 100	ppm
Impurity	CO ₃ : conforms	
Residual Solvents		
Residual solvents	complies	
Elemental Impurities		
Aluminium (Al)	≤ 30	ppm
Arsenic (As)	≤ 1	ppm
Cadmium (Cd)	≤ 1	ppm
Fluorine (F)	≤ 0,003	%
Mercury (Hg)	≤ 1	ppm
Lead (Pb)	≤ 1	ppm

Microbiological data		
Escherichia Coli.	neg.	/g
Gram-negative bacteria	≤ 100	CFU/g
Salmonella	neg.	/10 g
Staphylococcus Aureus	neg.	/g
Total Plate Count	≤ 1000	CFU/g
Yeast and Mould	≤ 100	CFU/g
Particle size distribution		
Particles	100 - 180 Mesh ≥ 80	%

Annotation:

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

Supplemental information:

Shelf life: 2 years

Complies with monographie: USP, FCC, E 333(iii)

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 14. Jul. 2025

LF-Basis: 2 (2024-03-18)

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