



# Specification

1.00244.5000 Citric acid monohydrate for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Specification		
Assay (acidimetric, calc. on anhydrous substance)	99.5 - 100.5	%
Identity (IR-spectrum)	passes test	
Appearance	white to almost white or colorless crystals	
Appearance of solution (200 g/l; water)	clear ( $\leq 3$ NTU) and not more intense in color than reference solution Y <sub>7</sub> , BY <sub>7</sub> or GY <sub>7</sub>	
In water insoluble matter	$\leq 50$	ppm
Chloride (Cl)	$\leq 5$	ppm
Phosphate (PO <sub>4</sub> )	$\leq 10$	ppm
Sulfate (SO <sub>4</sub> )	$\leq 20$	ppm
Heavy metals (as Pb)	$\leq 5$	ppm
Al (Aluminium)	$\leq 0.2$	ppm
As (Arsenic)	$\leq 1$	ppm
Hg (Mercury)	$\leq 1$	ppm
Cu (Copper)	$\leq 5$	ppm
Fe (Iron)	$\leq 3$	ppm
Fe (Iron, acc. to Reag. Ph Eur)	suitable to use in the limit test for iron	
Pb (Lead)	$\leq 0.5$	ppm
Oxalates (as C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> )	$\leq 50$	ppm
Readily carbonisable substance	passes test	
Sulfated ash	$\leq 200$	ppm
Water (according to Karl Fischer)	7.5 - 8.8	%

Corresponds to ACS, ISO 6353/2, Reag. Ph. Eur.

Dr. Sebastian Lips

Responsible laboratory manager quality control

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