# Specification

## 1.00244.0000 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 (≤ 3 NTU) and not more intense in color than reference solution $Y_7$, $BY_7$ or $GY_7$ | |
| In water insoluble matter | ≤ 50 | ppm |
| Chloride (Cl) | ≤ 5 | ppm |
| Phosphate ($PO_4$) | ≤ 10 | ppm |
| Sulfate ($SO_4$) | ≤ 20 | ppm |
| Heavy metals (as Pb) | ≤ 5 | ppm |
| Al (Aluminium) | ≤ 0.2 | ppm |
| As (Arsenic) | ≤ 1 | ppm |
| Hg (Mercury) | ≤ 1 | ppm |
| Cu (Copper) | ≤ 5 | ppm |
| Fe (Iron) | ≤ 3 | ppm |
| Fe (Iron, acc. to Reag. Ph Eur) | suitable to use in the limit test for iron | |
| Pb (Lead) | ≤ 0.5 | ppm |
| Oxalates (as $C_2H_2O_4$) | ≤ 50 | ppm |
| Readily carbonisable substance | passes test | |
| Sulfated ash | ≤ 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

This document has been produced electronically and is valid without a signature.