

## CERTIFICATE OF ANALYSIS

Product : **CITRIC ACID MONOHYDRATE**  
 Product number : C1303  
 Batch number : 011820  
 Date of analysis : 08-07-2015  
 Date of expiry : 31-05-2018

Packaging and storage : store in an airtight container

|                                 | SPECIFICATION                                                | RESULT   | UNITS | REMARKS                 |
|---------------------------------|--------------------------------------------------------------|----------|-------|-------------------------|
| Appearance                      | white crystalline powder,<br>colourless crystals or granules | complies |       |                         |
| Identification:                 | conform                                                      | complies |       |                         |
| Appearance of solution          | conform                                                      | complies |       | 20% in H <sub>2</sub> O |
| Readily carbonisable substances | conform                                                      | complies |       |                         |
| Oxalic acid                     | ≤ 360                                                        | < 360    | ppm   |                         |
| Sulphates                       | ≤ 150                                                        | < 150    | ppm   |                         |
| Heavy metals                    | ≤ 10                                                         | < 10     | ppm   |                         |
| Water                           | 7.5 – 9.0                                                    | 8.12     | %     | Karl Fischer            |
| Sulphated ash                   | ≤ 0.1                                                        | 0.01     | %     |                         |
| Assay                           | 99.5 – 101.0                                                 | 100.04   | %     | dried substance         |

This certificate of analysis is conform the results of the supplier.

Conclusion: approved

Released by:

drs. M. van Wissen, pharmacist  
 Department of Quality Control Duchefa B.V.

Date: 13-01-2016



The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.