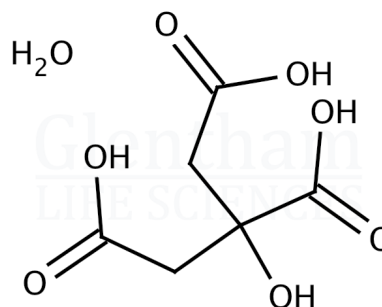


## Certificate of Analysis

|                   |                                    |
|-------------------|------------------------------------|
| Product Name      | Citric acid monohydrate, Ultrapure |
| Glentham Code     | GK9002                             |
| CAS Number        | 5949-29-1                          |
| EINECS            | 201-069-1                          |
| MDL-Nummer        | MFCD00149972                       |
| PubChem SID       | 310270362                          |
| Batch Number      | 076JFU                             |
| Molecular Weight  | 210.14                             |
| Molecular Formula | $C_6H_8O_7 \cdot H_2O$             |
| Storage Temp.     | +20°C                              |



| Property                        | Specification                                   | Batch 076JFU             |
|---------------------------------|-------------------------------------------------|--------------------------|
| Physical Description            | Colourless crystals or white crystalline powder | White crystalline powder |
| Identification                  | According to Ph. Eur.                           | Entspricht               |
| Solubility                      | According to Ph. Eur.                           | Entspricht               |
| Water (KF)                      | 8.1 - 8.7 %                                     | 8.5%                     |
| Heavy Metals                    | ≤ 1ppm                                          | Entspricht               |
| Arsenic (As)                    | ≤ 1ppm                                          | Entspricht               |
| Lead (Pb)                       | ≤ 0.5ppm                                        | Entspricht               |
| Mercury (Hg)                    | ≤ 1ppm                                          | Entspricht               |
| Copper (Cu)                     | ≤ 1ppm                                          | Entspricht               |
| Zinc (Zn)                       | ≤ 1ppm                                          | Entspricht               |
| Iron (Fe)                       | ≤ 1ppm                                          | Entspricht               |
| Barium (Ba)                     | ≤ 1ppm                                          | Entspricht               |
| Calcium (Ca)                    | ≤ 10ppm                                         | Entspricht               |
| Magnesium (Mg)                  | ≤ 1ppm                                          | Entspricht               |
| Aluminium (Al)                  | ≤ 0.2ppm                                        | Entspricht               |
| Chlorides                       | ≤ 5ppm                                          | Entspricht               |
| Sulphates                       | ≤ 30ppm                                         | Entspricht               |
| Oxalates                        | ≤ 10ppm                                         | Entspricht               |
| Readily Carbonisable Substances | According to Ph. Eur.                           | Entspricht               |
| Sulphated Ash                   | ≤ 0.1%                                          | Entspricht               |
| Assay (Titration)               | 99.8 - 100.5 %                                  | 100.4%                   |
| Pharmacopoeia Specification(s)  | Ph. Eur.                                        | Entspricht               |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.0       |
| Manufacture Date      | 2022-09-01 |
| Re-Test Date          | 2031-05-20 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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