



**ChemPure\* Brand  
Chemicals**

Cust-Product Code: CP-M1314D  
Lot #: 2018110681

...Pure Quality

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: **Citric Acid, Monohydrate**  
Crystal, ACS

F.W.: 210.1400

CHEMICAL FORMULA: C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>•H<sub>2</sub>O

CAS No: 5949-29-1

Density: 1.0000

| ANALYTICAL RESULTS                                                      |                |             |
|-------------------------------------------------------------------------|----------------|-------------|
| ITEM                                                                    | SPECIFICATIONS | ANALYSIS    |
| Assay (C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> • H <sub>2</sub> O) | 99.0 - 102.0%  | 100.5%      |
| Insoluble Matter                                                        | 0.005% max.    | 0.002%      |
| Residue After Ignition                                                  | 0.02% max.     | 0.003%      |
| Chloride (Cl)                                                           | 0.001% max.    | 0.0003%     |
| Oxalate (C <sub>2</sub> O <sub>4</sub> )                                | To pass test   | Passes Test |
| Phosphate (PO <sub>4</sub> )                                            | 0.001% max.    | 0.0002%     |
| Sulfate (SO <sub>4</sub> )                                              | 0.002% max.    | 0.0002%     |
| Iron (Fe)                                                               | 3 ppm max.     | <3 ppm      |
| Lead (Pb)                                                               | 2 ppm max.     | <2 ppm      |
| Substances carbonizable by hot H <sub>2</sub> SO <sub>4</sub>           | To pass test   | Passes Test |
| Manufacture Date                                                        | Record Actual  | 08/13/2018  |
| Expiration Date                                                         | Record Actual  | 08/12/2021  |
| REMARKS                                                                 |                |             |
|                                                                         |                |             |
|                                                                         |                |             |
|                                                                         |                |             |

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