

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : CITRIC ACID AR (MONOHYDRATE)**

**CAS No : 5949-29-1**  
**Mol. Formula : C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>.H<sub>2</sub>O**  
**Mol. WT : 210.14**  
**Date of analysis : 16/04/22**

**Product code : 22660**  
**Batch No : MCRT-25473**  
**Mfd. : April 2022**  
**Exp. : March 2027**

| S. R | Test                                     | Specification                                       | Observation          |
|------|------------------------------------------|-----------------------------------------------------|----------------------|
| 1    | Description                              | Colourless or white crystals or crystalline powder. | Colourless crystals. |
| 2    | Assay (by acidimetry)                    | 99.5 % w/w min                                      | 99.87% w/w           |
| 3    | Water insoluble matter                   | 0.003% max                                          | 0.002%               |
| 4    | Sulphated ash                            | 0.01% max                                           | 0.009%               |
| 5    | Chloride (Cl)                            | 0.0005% max                                         | < 0.0005%            |
| 6    | Sulphate (SO <sub>4</sub> )              | 0.002% max                                          | < 0.002%             |
| 7    | Oxalate (C <sub>2</sub> O <sub>4</sub> ) | 0.005% max                                          | < 0.005%             |
| 8    | Readily carbonizable substances          | passes test                                         | Passes test          |
| 9    | Lead(Pb)                                 | 0.0001% max                                         | < 0.0001%            |
| 10   | Iron (Fe)                                | 0.0001% max                                         | < 0.0001%            |
| 11   | Phosphate (PO <sub>4</sub> )             | 0.0005% max                                         | <0.0005%             |
| 12   | Arsenic (As)                             | 0.00001% max                                        | <0.00001%            |
| 13   | Calcium (Ca)                             | 0.002% max                                          | <0.002%              |
| 14   | Copper (Cu)                              | 0.00005% max                                        | <0.00005%            |
| 15   | Nickel (Ni)                              | 0.0001% max                                         | <0.0001%             |
| 16   | Magnesium (Mg)                           | 0.0005% max                                         | <0.0005%             |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**[QC Incharge]**

**HEAD-QUALITY ASSUARANCE**  
**(G.G.Salian)**

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**  
**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**  
**Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,**  
**Kulgaon, Badlapur (E), Dist.-Thane-421 503**



**Note:** Computer generated image requires no sign.

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Kulgaon, Badlapur (E), Dist.-Thane-421 503