

## CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

|                   |                          |
|-------------------|--------------------------|
| Product Name      | Tartaric Acid Retarder   |
| C.A.S. Number     | 87-69-4                  |
| Molecular Formula | —                        |
| Molecular Weight  | —                        |
| Grade / Standard  | ≥99.5% purity            |
| Physical Form     | White crystalline powder |
| Product Category  | Construction Chemicals   |
| Country of Origin | India                    |

### ANALYTICAL RESULTS

| S. No. | Test Parameter            | Specification                              | Result           | Method                    |
|--------|---------------------------|--------------------------------------------|------------------|---------------------------|
| 1      | Description               | White crystalline powder                   | Complies         | Visual                    |
| 2      | Identification            | Conforms to the structure of the substance | Complies         | FTIR / Chemical test      |
| 3      | Solubility                | As per specification                       | Complies         | Visual / Monograph        |
| 4      | Assay                     | Not less than 99.5 % w/w                   | 99.60            | Titrimetry / Instrumental |
| 5      | Volatile Matter           | Not more than 1.0 % w/w                    | 0.13             | Gravimetry                |
| 6      | Ash Content               | Not more than 0.5 % w/w                    | 0.146            | Gravimetry                |
| 7      | Softening / Melting Point | As per specification                       | Conforms         | ASTM D3461 / Capillary    |
| 8      | Residue on 63 µm Sieve    | Not more than 0.5 %                        | 0.080            | Sieve analysis            |
| 9      | Heavy Metals (as Pb)      | Not more than 20 ppm                       | Less than 10 ppm | ICP-OES                   |
| 10     | Moisture                  | Not more than 1.0 % w/w                    | 0.23             | Karl Fischer / Gravimetry |
| 11     | Structure                 | Conforms to reference structure            | Complies         | FTIR / NMR                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            |
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| <b>Remarks</b><br><br>Material supplied against this specification is analysed on every production lot and <b>conforms</b> to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.<br><br>Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight. | <b>Checked and Approved by</b><br><br><b>Prem Panchal</b><br>Quality Assurance<br>Scapex Exports Pvt. Ltd. |
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This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.