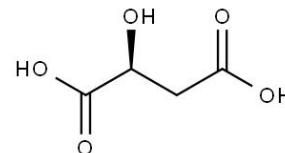


## Technical Data Sheet

## L-Malic acid

## Compound Information

|                    |                                              |
|--------------------|----------------------------------------------|
| Product Name:      | L-Malic acid                                 |
| CAS No.:           | 97-67-6                                      |
| Molecular Formula: | C <sub>4</sub> H <sub>6</sub> O <sub>5</sub> |
| Molecular Weight:  | 134.09                                       |
| Storage:           | Store at RT                                  |
| Revision Date:     | 2026-04-15                                   |



## Analytical Information

| Tests                                     | Specifications                                                                                                                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Appearance                                | White crystalline powder                                                                                                           |
| Heavy Metals                              | ≤10 mg/kg (as Pb)                                                                                                                  |
| Arsenic (As <sub>2</sub> O <sub>2</sub> ) | ≤2.0 mg/Kg                                                                                                                         |
| Anion                                     | Chloride (Cl <sup>-</sup> ): ≤ 0.004%, Sulfate (SO <sub>4</sub> <sup>2-</sup> ): ≤0.02%                                            |
| Cation                                    | Lead (Pb): ≤2 mg/kg                                                                                                                |
| Specific Rotation                         | [α] <sub>D20</sub> = -1.6 to -2.6°                                                                                                 |
| Transmission                              | State of solution: To pass test                                                                                                    |
| Residue On Ignition                       | ≤ 0.10%                                                                                                                            |
| Assay by titration                        | ≥ 99%                                                                                                                              |
| Application                               | Used to selectively protect the α-amino group of amino acids. It is the starting material for the preparation of chiral compounds. |
| Additional Information                    | Fumaric Acid: ≤ 0.5%, Maleic Acid: ≤0.05%                                                                                          |
| <a href="#">MS</a>                        | Pass test                                                                                                                          |
| <a href="#">1H NMR</a>                    | Pass test                                                                                                                          |
| <a href="#">13C NMR</a>                   | Pass test                                                                                                                          |
| <a href="#">IR</a>                        | Pass test                                                                                                                          |
| <a href="#">Raman</a>                     | Pass test                                                                                                                          |

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