

## SPECIFICATION

### Malonic Acid

| Parameters        | Specification                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------|
| CAS Number        | 141-82-2                                                                                                       |
| Appearance        | White crystalline solid                                                                                        |
| Molecular Formula | C <sub>3</sub> H <sub>4</sub> O <sub>4</sub>                                                                   |
| Molecular Weight  | 104.07 g/mol                                                                                                   |
| Boiling Point     | 140 °C                                                                                                         |
| Melting Point     | 135 °C                                                                                                         |
| Flash Point       | 170 °C                                                                                                         |
| Purity            | 98–99%                                                                                                         |
| Refractive Index  | 1.52                                                                                                           |
| Solubility        | Soluble in water; soluble in ethanol; slightly soluble in non-polar solvents                                   |
| Uses              | Intermediary in organic synthesis; used in malonic ester synthesis; precursor for pharmaceuticals and polymers |

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