

## SPECIFICATION

### Terephthalic Acid

| Parameters        | Specification                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|
| CAS Number        | 100-21-0                                                                                                                        |
| Appearance        | White crystalline solid                                                                                                         |
| Molecular Formula | C <sub>8</sub> H <sub>6</sub> O <sub>4</sub>                                                                                    |
| Molecular Weight  | 166.13 g/mol                                                                                                                    |
| Boiling Point     | 400 °C                                                                                                                          |
| Melting Point     | 300 °C                                                                                                                          |
| Flash Point       | 360 °C                                                                                                                          |
| Purity            | 99–99.5%                                                                                                                        |
| Refractive Index  | 1.65                                                                                                                            |
| Solubility        | Sparingly soluble in water; soluble in hot water; soluble in many organic solvents (DMF, DMSO)                                  |
| Uses              | Primary monomer for the production of polyethylene terephthalate (PET); used in polyester resins and as a chemical intermediate |

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