

## SPECIFICATION

### Levulinic Acid

| Parameters        | Specification                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| CAS Number        | 123-76-2                                                                                                                   |
| Appearance        | White crystalline solid                                                                                                    |
| Molecular Formula | C <sub>5</sub> H <sub>8</sub> O <sub>3</sub>                                                                               |
| Molecular Weight  | 116.12 g/mol                                                                                                               |
| Boiling Point     | 204 °C                                                                                                                     |
| Melting Point     | 42 °C                                                                                                                      |
| Flash Point       | 170 °C                                                                                                                     |
| Purity            | 98–99%                                                                                                                     |
| Refractive Index  | 1.46                                                                                                                       |
| Solubility        | Soluble in water; soluble in ethanol; sparingly soluble in nonpolar solvents                                               |
| Uses              | Renewable platform chemical used as a building block for levulinate esters, solvents, plasticizers, and bio-based polymers |

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