

# Specification

Technical Data Sheet

|                                  |                                            |                                          |
|----------------------------------|--------------------------------------------|------------------------------------------|
| <b>CAS</b><br><b>207738-08-7</b> | <b>STORAGE</b><br><b>2 to 8 &amp;deg;C</b> | <b>MOLECULAR WEIGHT</b><br><b>313.27</b> |
|----------------------------------|--------------------------------------------|------------------------------------------|

**PRODUCT****3,3',5,5'-Tetramethylbenzidine dihydrochloride hydrate**

|                          |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| <b>Product number</b>    | 90030326                                                                   |
| <b>CAS number</b>        | 207738-08-7                                                                |
| <b>Molecular formula</b> | C <sub>16</sub> H <sub>20</sub> N <sub>2</sub> . 2 HCl . xH <sub>2</sub> O |
| <b>Molecular weight</b>  | 313.27 g/mol                                                               |

| PARAMETER                                | SPECIFICATION                                         |
|------------------------------------------|-------------------------------------------------------|
| <b>Appearance</b>                        | White to almost white light fluffy crystalline powder |
| <b>Assay</b>                             | ≥99.0%                                                |
| <b>Loss on Drying</b>                    | ≤11.0%                                                |
| <b>Solubility (1M in H<sub>2</sub>O)</b> | Clear, colourless solution                            |
| <b>Ignition residue</b>                  | ≤0.1%                                                 |
| <b>UV Absorption (280nm)</b>             | (10mg/L aq.) ≤1.0%                                    |

|                                |                                                                                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIFICATION STATEMENT</b> | The values stated above represent the standard specification for this product, issued under <b>Molekula Ltd</b> 's quality management system. Batch-specific results are provided on the Certificate of Analysis. |
| <b>STORAGE</b>                 | Store as indicated on the product label, away from light, moisture and incompatible materials.                                                                                                                    |

**Molekula Ltd** would like to thank you for your support of our products and service.

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