

**n-Nonyl- $\beta$ -D-Glucoside**  
**BIOMOL Prod. - No. 50862**

|                          |  |
|--------------------------|--|
| <b>Lot - No.:</b>        | 2020   |
| <b>CAS - No.:</b>        | 69984-73-2                                     |
| <b>Formula:</b>          | C <sub>15</sub> H <sub>30</sub> O <sub>6</sub> |
| <b>Molecular Weight:</b> | 306.4  |
| <b>Storage:</b>          | -20 °C   |
| <b>Assay:</b>            | 99.6% ( by HPLC –on dried substance )          |
| <b>NMR Spectrum:</b>     | complies with the structure                    |
| <b>Percent alpha:</b>    | < 0.01% (HPLC,TLC)                             |
| <b>Percent alcohol:</b>  | < 0.002% (HPLC)                                |

**Physical Specification:**

|   |   |
|---|---|
| <b>Appearance:</b>                                | white crystalline powder                              |
| <b>Melting Point:</b>                             | 72.3°C (smectic A) 118.1°C isotropic                  |
| <b>Spec. opt. rotation:</b>                       | [ $\alpha$ ] <sub>D</sub> –33° (c 5 H <sub>2</sub> O) |
| <b>Solution</b>                                   |   |
| <b>(10% in Water, 21°C):</b>                      | clear, colourless                                     |
| <b>Solution</b>                                   |   |
| <b>(20% in Ethanol, 21°C):</b>                    | clear, colourless                                     |
| <b>Water (K.F.):</b>                              | 0.1%  |
| <b>TLC CH<sub>2</sub>Cl<sub>2</sub> :MeOH 7:1</b> | one spot  |
| <b>pH (1% solution)</b>                           | 6.5   |

|                      |  |
|----------------------|--|
| <b>Fluorescence:</b> | Solvent: 0.01% BSA - Detergent conc.: 0.1%<br>Excitation Wavelength: 280 nm<br>Emission Wavelength: 345 nm |
|----------------------|--|

**% due to detergent:** 0.72%

**Absorbance:** Solvent: H<sub>2</sub>O - Concentration: 1%

|                |       |
|----------------|-------|
| <b>340 nm:</b> | 0.007 |
| <b>280 nm:</b> | 0.011 |
| <b>260 nm:</b> | 0.018 |
| <b>225 nm:</b> | 0.046 |

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