



## SPECIFICATION

### Isopropyl b-D-thiogalactopyranoside - non-animal origin

|                   |                        |
|-------------------|------------------------|
| Product Code:     | EI05931                |
| Synonyms:         | IPTG non-animal origin |
| CAS Number:       | 367-93-1               |
| Chemical Formula: | $C_9H_{18}O_5S$        |
| Molecular Weight: | 238.30                 |

#### TECHNICAL SPECIFICATION

|   |  |
|---|--|
| Appearance:                               | White to almost white crystalline powder                     |
| Purity (HPLC)<br>(on dry basis):          | min 99.0%  |
| Specific optical rotation<br>$[\alpha]_D$ | $-31.5 \pm 3.0^\circ$ <sup>20</sup> (c=1, H <sub>2</sub> O): |
| Melting point:                            | 110 - 114°C  |
| Identity (IR):                            | Conforms to structure  |
| Solubility:                               | Soluble in water and methanol                                |
| Heavy metals<br>(Pb):                     | max 5ppm   |
| 1,4-Dioxane:                              | Not detected   |
| pH<br>(5% in water):                      | 5.0 - 7.0  |
| Water content (Karl Fischer):             | max 1.0%   |