

Specification

***n*-Octyl- $\beta$ -D-Thioglucopyranoside BioChemica**

**A1145**

<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A1145
<b>Product Name:</b>	<i>n</i> -Octyl- $\beta$ -D-Thioglucopyranoside BioChemica
<b>Specifications:</b>	Assay (HPLC): min. 99 % $\alpha$ 20°C/D; 1 %, MeOH: -52° - -54° Solubility (8 %; H <sub>2</sub> O): clear, colorless $\alpha$ -Isomer (HPLC): max. 0.01 % <i>n</i> -Octanethiol (HPLC): max. 0.001 % A (1 cm/0.5 %, water HPLC grade) 260 nm: max. 0.25
<b>WGK:</b>	1
<b>Storage:</b>	2-8°C
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>28</sub> O <sub>5</sub> S
<b>M:</b>	308.44 g/mol
<b>CAS:</b>	85618-21-9
<b>CS:</b>	29329900
<b>Comment</b>	<p>Octylthioglucoside was developed as an alternative to octylglucoside. The CMC of Octylthioglucoside was determined to be 9 mM. It is more stable than Octylglucoside and is not cleaved by <math>\beta</math>-glucosidases.</p>
<b>Bibliography</b>	<p>(1)Saito, S. &amp; Tsuchiya, T. (1984) <i>Biochem. J.</i> <b>222</b>, 829-832Characteristics of <i>n</i>-Octyl-<math>\beta</math>-D-thioglucopyranoside, a new non-ionic detergent useful in membrane biochemistry. (2)Tsuchiya, T. &amp; Saito, S. (1984) <i>J. Biochem.</i> <b>96</b>, 1593-1597Use of <i>n</i>-Octyl-<math>\beta</math>-D-thioglucopyranoside, a new nonionic detergent, for solubilization and reconstitution of membrane proteins.</p>

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