



## Octyl-beta-D-glucoopyranoside

**Catalog No:** 50164  
**Lot No:** XXXXX  
**Cas No:** 29836-26-8  
**Formula:** C<sub>14</sub>H<sub>28</sub>O<sub>6</sub>  
**MW:** 292.38  
**Supplied as:** solid  
**Stability:** store at 4°C (dry, sealed in a plastic bag)

### Background

Octyl glucoside (n-octyl-β-D-glucoside) is a nonionic surfactant frequently used to solubilise integral membrane. Structurally, it is a glycoside derived from glucose and octanol.

### Tests

**Appearance:**

**Melting point (fluid crystal):**

**M.p.:**

**Spec. opt. rotation:**

**Assay (HPLC - on dried subst.):**

**NMR Spectrum:**

**Solution (10% in Water, 21°C):**

**Solution (20% in Ethanol, 21°C):**

**Water (K.F.):**

**TLC: CH<sub>2</sub>CL<sub>2</sub> : MeOH 7:1:**

### Contaminants

**n-Octanol**

**Octyl-α-glucoside**

### Fluorescence

**% due to detergent:**

**pH (1% solution):**

**Absorbance**

**340 nm:**

**280 nm:**

**260 nm:**

**225 nm**

### Specifications

white crystalline powder

smec. 70.1°C

105°-107°C

[α]<sub>D</sub> -34,0°±0,5 (c 5; H<sub>2</sub>O; 20°C)

>99.0%

complies with the structure

clear, colorless

clear, colorless

<0.2%

one spot

< 0.01 % (HPLC)

< 0.01 % (HPLC, TLC)

Solvent: 0.01% BSA / Detergent 0.1%

Excitation Wavelength: 280 nm

Emission Wavelength: 345 nm

0.55 – 0.65 %

5.5 – 7.0

Solvent: H<sub>2</sub>O/ Detergent

Concentration: 0.1%

<0.01

<0.02

<0.03

<0.01

### Usage

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