



## Dodecyl-alpha-D-maltoside

**Catalog No:** 52694  
**Lot No:** XXXXX  
**Cas No:** 116183-64-3  
**Formula:** C<sub>24</sub>H<sub>46</sub>O<sub>11</sub>  
**MW:** 510.63  
**Supplied as:** solid  
**Stability:** store at -20°C

### Background

Alkyl Maltosides are a class of detergents composed of a hydrophilic maltose and a hydrophobic alkyl chain. Variation in the alkyl chain confers a range of detergent properties including CMC and solubility. Maltosides are most often used for the solubilization and purification of membrane proteins.

### Tests

**Appearance:****[α]<sub>D</sub>(c1; H<sub>2</sub>O; 22°±2°C):****m.p. thermal transition:****Purity:****Contaminants****n-Dodecanol:****n-Dodecyl-β-Maltoside:****Solubility****10% solution in water:****10% solution in ethanol:****pH (1% in solution):****Conductance:****Fluorescence:****% due to detergent:****Absorbance: Solvent: H<sub>2</sub>O / Detergent  
concentration: 1%****340nm:****280nm:****260nm:****240nm:**

### Specifications

white crystal powder

+125°±1°

123°C – 124°C (smetic A)

198°C – 200°C (isotopic)

&gt;99,0%

&lt;0,002% (HPLC)

&lt;7% (HPLC, TLC)

clear, colourless

clear, colourless

5.5 – 6.5

6,5±1 μS/cm (10% aq.solution)

Solvent: 0.01% BSA / Detergent 0.1%

Excitation wavelength: 280 nm

Emission wavelength: 345 nm

1,0%±0,3%

&lt;0.02

&lt;0.03

&lt;0.04

&lt;0.10

### Usage

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