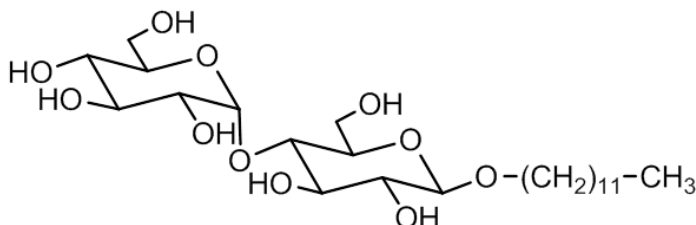




n-Dodecyl-beta-maltoside for crystallography

Catalog No: 56366
Lot No: XXXXX
Cas No: 69227-93-6
Formula: C₂₄H₄₆O₁₁
MW: 510.63
Supplied as: solid
Stability: store at -20°C, avoid humidity!



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]_D(c1; H₂O; 22°±2°C):

M.p. thermal transition:

Specifications

white crystal powder

+48°±1°

103.0°C±0.5°C (smectic A)

246°C (isotropic)

Purity:

>99.5%

Contaminants

n-Dodecanol:

<0.002% (HPLC)

n-Dodecyl-α-Maltoside:

<0.003% (HPLC, TLC)

Solubility

10% solution in water:

clear, colourless

10% solution in ethanol:

clear, colourless

pH (1% in solution):

5.5 - 6.5

Conductance:

6.5 ± 1 μS/cm (10% aq. solution)

Fluorescence:

0.01% BSA / Detergent 0.1%

Excitation wavelength: 280nm

Emission wavelength: 345 nm

% due to detergent:

1.0% ± 0.3%

Absorbance: Solvent: H₂O / Detergent concentration: 1%

340nm:

<0.02

280nm:

<0.03

260nm:

<0.04

240nm:

<0.10

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51