



n-Decyl-beta-D-maltoside

Catalog No: 50165
Lot No: XXXXX
Cas No: 82494-09-5
Formula: C₂₂H₄₂O₁₁
MW: 482.57
Supplied as: solid
Stability: store at -20°C (dry, sealed in a plastic bag)

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:

Spec. opt. rotation:

M.p. thermal transition:

Purity (n-Decyl-beta-D-maltoside):

TLC: CH₂CL₂/MeOH 7:1:

Contaminants

n-Decanol

n-Decyl α-maltoside

pH (1% solution):

Conductance:

Fluorescence

% due to detergent:

Absorbance

340 nm:

280 nm:

260 nm:

225 nm

Specifications

white crystalline powder

[α]_D +52.0°±1° (c 4; H₂O; 20°C)

87° - 90°C (smectic A)

208.0°C (isotropic)

>99.0%

one spot

< 0.001% (HPLC)

< 0.01% (HPLC, TLC)

5.5 – 7

7.2±0.5 μS/cm (10% aq. Solution)

Solvent: 0.01% BSA / Detergent 0.1%

Excitation Wavelength: 280 nm

Emission Wavelength: 345 nm

0.65 – 0.7 %

Solvent: H₂O/ Detergent

Concentration: 1%

<0.01

<0.02

<0.04

<0.10

Usage

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