



n-Decyl-beta-D-maltoside

Catalog No:	50165
Lot No:	XXXXX
Cas No:	82494-09-5
Formula:	C ₂₂ H ₄₂ O ₁₁
MW:	482.57
Supplied as:	solid
Stability:	store at -20°C (dry, sealed in a plastic bag, adjust to RT before opening)

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:

Specifications

white crystalline powder

Spec. opt. rotation:

[α]_D +52.0°±1° (c 4; H₂O; 20°C)

M.p. thermal transition:

87 - 90°C (smectic A)

208.0°C (isotropic)

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

>99.0%

TLC: CH₂CL₂/MeOH 7:1:

one spot

Contaminants

n-Decanol

< 0.001% (HPLC)

n-Decyl α-maltoside

< 0.01% (HPLC, TLC)

pH (1% solution):

5.5 – 7

Conductance:

7.2±0.5 μS/cm (10% aq. Solution)

Fluorescence

Solvent: 0.01% BSA / Detergent 0.1%

Excitation Wavelength: 280 nm

Emission Wavelength: 345 nm

% due to detergent:

0.65 – 0.7 %

Absorbance

Solvent: H₂O/ Detergent

Concentration: 1%

340 nm:

<0.01

280 nm:

<0.02

260 nm:

<0.04

225 nm

<0.10

Usage

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