

1. Identification

Catalogue Number

TRC-M160653

Lot Number

3-SEH-64-1

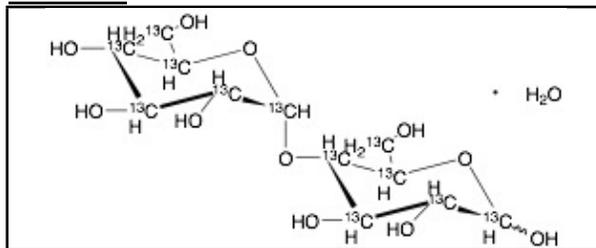
Product Name

D-(+)-Maltose Monohydrate-¹³C₁₂

Synonyms

4-O-α-D-[UL-¹³C₆]Glucopyranosyl-D-[UL-¹³C₆]glucose

Structure



CAS Number

N/A

Solubility

Methanol (Slightly), Water (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

¹³C₁₂H₂₄O₁₂

Source of Product

N/A

Long Term Storage Conditions

4°C, Inert atmosphere

Molecular Weight

372.22

Purity

97%

2. Warnings

Not Determined

3. Analytical Information

Tests

Appearance

Specifications

White to Off-White Solid

Results

White Solid

NMR

Conforms to Structure

Conforms

C NMR

Conforms to Structure

Conforms

HPLC Purity

Report Result

96.46% (ELSD)

MS

Conforms to Structure

Conforms

Isotopic Purity

>95%

97.5%

Specific Rotation

Report Result

+141.7° (c = 0.1, Water; 4 Hours)

Additional Information

Normalized Intensity: ¹³C₀ = 0.00%, ¹³C₁ = 0.26%, ¹³C₂ = 0.00%, ¹³C₃ = 0.00%, ¹³C₄ = 0.00%, ¹³C₅ = 0.00%, ¹³C₆ = 0.00%, ¹³C₇ = 1.18%, ¹³C₈ = 0.00%, ¹³C₉ = 4.46%, ¹³C₁₀ = 0.00%, ¹³C₁₁ = 8.35%, ¹³C₁₂ = 85.75%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed.

The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed by

Evan Burns

Reviewed by

Toni Rantanen

C of A Approved by

Chanell Chu

Test Date

3/15/2022

Retest Date

3/13/2026

Evan Burns
Product Quality Specialist

Toni Rantanen
Manager, Quality Assurance

Chanell Chu
Jr. Quality Assurance