

Product Name: D-(+)-Trehalose dihydrate, 99%
Catalog Number: A19434.22

CAS Number: 6138-23-4
IUPAC Name: (2R,3S,4S,5R,6R)-2-(hydroxymethyl)-6-[[[(2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxy]oxane-3,4,5-triol dihydrate
Molecular Formula: C₁₂H₂₆O₁₃
Molecular Weight: 378.33
MDL Number: MFCD00071594
InChI Key: DPVHGFAJLZWDOC-DJCWUSJTNA-N
SMILES: O.O.O[C@H]1O[C@H](O[C@H]2O[C@H](CO)[C@@H](O)[C@H](O)[C@H]2O)[C@H](O)[C@@H](O)[C@@H]1O
Synonym: trehalose dihydrate

Product Specification

Appearance (Color): White
Form: Crystalline powder
Water Content (Karl Fischer Titration): 8.65-10.80% (1.8-2.3 waters)
Identification (FTIR): Conforms
Optical Rotation: +178 ± 4? (c=2 in water)
Assay from Supplier's CofA: ≥98.5%

Date Of Print: 05/24/2025

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.