

**Product Name:** D-Trehalose, 99%, anhydrous  
**Catalog Number:** 309870250

**CAS Number:** 99-20-7  
**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  
**Molecular Formula:** C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>  
**Molecular Weight:** 342.30  
**MDL Number:** MFCD00006628  
**InChI Key:** HDTRYLNUVZCQOY-LBYRQFQKNA-N  
**SMILES:** OC[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:** α,α'-trehalose

## Product Specification

**Appearance (Color):** White to almost white  
**Appearance (Form):** Crystalline powder  
**Infrared spectrum:** Conforms  
**HPLC:** ≥98.5 %  
**Water:** ≤1.0 % (K.F.)  
**Specific optical rotation:** +194° to +200° (20°C, 589 nm) (c=7, water)  
**Solubility:** (10 % in water) Clear colorless to light yellow

**Date Of Print:** 09/04/2024

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