

## Product Datasheet

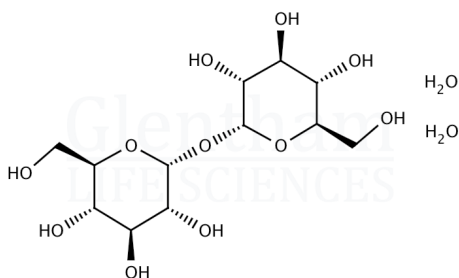
### GC7900 - D-(+)-Trehalose dihydrate

#### Product Details

Product Name	D-(+)-Trehalose dihydrate
Glentham Code	GC7900
CAS Number	6138-23-4
EINECS	202-739-6
MDL Number	MFCD00071594
Additional CAS	99-20-7 (anhydrous)
PubChem SID	310281106
Related Categories	Carbohydrates, Core Carbohydrates, Biochemicals, Oligosaccharides

#### Structure

Molecular Weight	: 378.33
Molecular Formula	: $C_{12}H_{22}O_{11} \cdot 2H_2O$



Physical Description	: White to almost white crystalline powder
Loss on Drying	: $\leq 1.5\%$ (60°C, 5h)
Water	: $\leq 11.0\%$
pH (30% solution)	: 4.5 - 6.5
Colour of Solution	: $\leq 0.100$
Turbidity	: $\leq 0.050$
Residue on Ignition	: $\leq 0.05\%$
Heavy Metals (as Pb)	: $\leq 1\text{ppm}$
Lead (Pb)	: $\leq 0.1\text{ppm}$
Arsenic (As <sub>2</sub> O <sub>3</sub> )	: $\leq 1\text{ppm}$
Assay	: $\geq 98.0\%$ (Trehalose, dry basis)
Total Aerobic Microbial Count	: $\leq 300\text{CFU/g}$
Total Coliforms	: None detected
Total Combined Yeast and Mould Count	: $\leq 100\text{CFU/g}$
Version	: v1.0

#### About D-(+)-Trehalose dihydrate

Trehalose is a disaccharide composed of two  $\alpha$ -glucose units. It is a carbohydrate reserve in microorganisms and aids in surviving adverse environmental conditions such as freezing and dehydration. Trehalose can be used as a cryoprotectant in cell-freezing media.

#### Storage

Recommended storage temperature: +20°C.

#### Hazards and Transport

Not classified as hazardous under CLP.  
Not classified as dangerous for transport.

#### Glentham Product Specification

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