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Product Datasheet

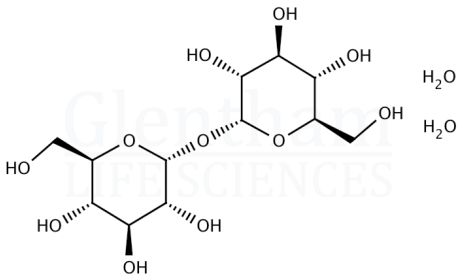
GC7900 - D-(+)-Trehalose dihydrate

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	:	≤ 1.5% (60°C, 5h)
Water	:	≤ 11.0%
pH (30% solution)	:	4.5 - 6.5
Colour of Solution	:	≤ 0.100
Turbidity	:	≤ 0.050
Residue on Ignition	:	≤ 0.05%
Heavy Metals (as Pb)	:	≤ 1ppm
Lead (Pb)	:	≤ 0.1ppm
Arsenic (As2O3)	:	≤ 1ppm
Assay	:	≥ 98.0% (Trehalose, dry basis)
Total Aerobic Microbial Count	:	≤ 300CFU/g
Total Coliforms	:	None detected
Total Combined Yeast and Mould Count	:	≤ 100CFU/g
Version	:	v1.0

About D-(+)-Trehalose dihydrate

Trehalose is a disaccharide composed of two α-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