

## Product Datasheet

### GC1201 - D-(+)-Trehalose dihydrate,

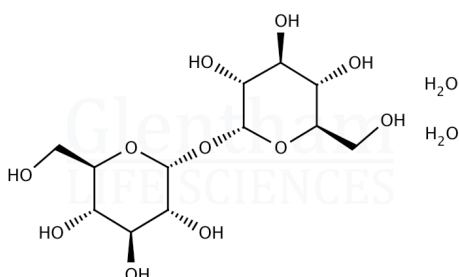
#### Ph. Eur. grade

#### Product Details

Product Name	D-(+)-Trehalose dihydrate, Ph. Eur. grade
Glenthams Code	GC1201
CAS Number	6138-23-4
EINECS	202-739-6
MDL Number	MFCD00071594
Additional CAS	99-20-7
Related Categories	Carbohydrates, Core Carbohydrates, Biochemicals, Reagents for Cell Culture, Oligosaccharides

#### Structure

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



#### Storage

Recommended storage temperature: +20°C.

#### Hazards and Transport

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

### Glenthams Product Specification

Physical Description	: White crystalline powder
Identification	: A, B, C according to Ph. Eur.
Solubility (10% in water)	: Clear, colourless solution
pH (10% in water)	: 4.5 - 6.5
Specific Optical Rotation	: +197 - +201 °
Impurity A	: ≤ 0.5% (glucose)
Impurity B	: ≤ 0.5% (oligosaccharides)
Any Unspecified Impurity	: ≤ 0.2%
Total Impurities	: ≤ 1.0%
Chlorides	: ≤ 125ppm
Sulphates	: ≤ 200ppm
Heavy Metals	: ≤ 5ppm
Soluble Starch	: To pass test (no blue colour)
Sulphated Ash	: ≤ 0.1%
Water	: 9.0 - 11.0 %
Total Aerobic Microbial Count	: ≤ 1000CFU/g
Total Yeast and Mould Count	: ≤ 100CFU/g
Escherichia coli	: Absent
Salmonella	: Absent
Assay	: 99.0 - 101.0 % (anhydrous basis)
Pharmacopoeia Specification(s)	: Ph. Eur.
Version	: v1.0

### About D-(+)-Trehalose dihydrate, Ph. Eur. grade

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.

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