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Trade registration nr. 50769421 Chamber of Commerce Utrecht

## Product Data Sheet

**Product Name:** Trehalose  
**Molecular Formula:** C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>.2H<sub>2</sub>O  
**CAS No.:** 6138-23-4  
**EC No:** 612-140-5  
**Standard according as:** GB/T 23529-2009  
**Grade type of product:**

### Description

Trehalose is a dihydrous crystalline and non-reducing disaccharide consisting of two glucose molecules linked by an  $\alpha, \alpha$ -1,1 bond. Trehalose is manufactured from starch using enzymes technology.

### Specifications

Test Item	Standard
Appearance	Whitish crystalline powder
Assay, Trehalose(on dry basis),%	98.0 min.
Loss on drying,% (60°C, 5 hrs)	1.5 max.
Residue on ignition,%	0.05 max.
Heavy metals(as Pb),ppm	1 max.
Arsenic,(as AS <sub>2</sub> O <sub>3</sub> ),ppm	0.5 max.
Lead,(Pb),ppm	0.1 max.
PH Value (30% solution)	5.0 – 6.7
Color in solution(30% solution)	0.1 max.
Turbidity(30% solution)	0.05 max.
Total aerobic microbial count CFU/g	300 max.
Coliform organisms mpn/g	30 max.
Total combined yeasts and molds count CFU/g	100 max.
Pathogen	Negative

### Packaging:

Packaged in multi-layer craft paper bag with food grade PE inner bag, net 20kg/bag.  
(Other packaging types are available on requests)

### Shelf life

24 months if stored under recommended storage conditions.

### Storage conditions

TDS Hunan Chemical BV

Should be stored in a cool,ventilated and dry place below 40°C and relative humidity less then 70%.