

4703 – D-TREHALOSE DIHYDRATE (ACS Grade)

REF NO: TBL/QA/SS/LC/4703	STANDARD SPECIFICATION FOR D-TREHALOSE DIHYDRATE (ACS GRADE)	Rev. No: 03
Issue No: 04		Review Date: 12/11/2024
Issue Date:13/11/2021		Product code: 4703

PRODUCT PROPERTIES

C.A.S Number	6138-23-4
Chemical Formula	C ₁₂ H ₂₂ O ₁₁ .2H ₂ O
Formula weight	378.33
Functional Uses	D-Trehalose Dihydrate is used in cosmetics, foods, and parenteral and no parenteral pharmaceutical formulations. It is generally regarded as a relatively nontoxic and nonirritant material when used as an excipient.
Standard Packaging	5 gm. & 25 gm.

PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	White to off-white crystalline powder.
Solubility (10% aqueous soln.)	Soluble in water, clear solution.

CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Melting Point (°C)	96 – 99°C
Specific rotation	+176° to +186°
Sulphated Ash	NMT – 0.1%
Chloride (Cl)	NMT – 0.01%
Sulphate (SO ₄)	NMT – 0.01%
Iron (Fe)	NMT – 0.001%
Heavy Metals (Pb)	NMT – 0.001%
Reducing sugars	NMT – 0.1%
Water (KF)	NMT – 10.0%

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

