

Sorbitol Liquid & Powder

Humectant for liquid and semi-solid formulations

Product Description

Sorbitol is available as liquid solution and powder for use as a humectant, sweetener and vehicle in pharmaceutical syrups, gels and oral care products. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2905.44

CAS Number: 50-70-4

Classification: Pharmaceutical Excipient – Hu

Parameter	Specification	Test Method
Appearance (Liquid)	Clear colorless syrupy liquid	Visual
Appearance (Powder)	White crystalline powder	Visual
Assay (Powder, on dried basis)	99.0–101.5%	GC / USP method
Assay (Liquid, 70% w/w)	69.0–71.0%	Refractometry / GC
pH (10% aq. solution)	4.5–7.0	Potentiometry
Melting Point (Powder)	94–96°C	Capillary tube method
Reducing Sugars	"d 0.3 %	Alkaline copper titration
Loss on Drying (Powder)	"d 1.0 %	USP <731>
Heavy Metals (as Pb)	"d 10 ppm	ICP-MS

Physical Properties

Appearance: Clear colorless syrupy liquid (liquid) or white crystalline powder (powder)

Odor: Odorless, sweet taste

Molecular Formula: $C_6H_{14}O_6$

Molecular Weight: 182.17 g/mol

Solubility: Freely soluble in water; slightly soluble in ethanol

Melting Point: 94–96°C (crystalline form)

Packing: Liquid: 270 kg HDPE drums; IBC 1000 L; Powder: 25 kg HDPE or paper bags with PE liner

Storage: Store in cool, dry area. Protect from moisture (hygroscopic). Keep containers tightly sealed.

Safety & Handling

PPE: Gloves and goggles for bulk handling; dust mask for powder

Hazards:

- Low toxicity – food and pharmaceutical grade
- Dust may cause mild irritation