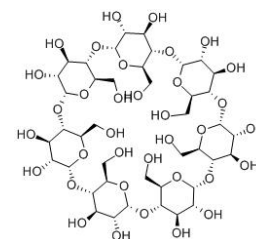


Technical Data Sheet

beta-Cyclodextrin hydrate

Compound Information

Product Name:	beta-Cyclodextrin hydrate
CAS No.:	68168-23-0
Molecular Formula:	C ₄₂ H ₇₀ O ₃₅
Molecular Weight:	1134.98
Storage:	Store at RT
Revision Date:	2026-04-15



Analytical Information

Tests	Specifications
Appearance	White crystalline powder
Clarity	Clear and colorless solution (0.2 g in 20 mL freshly boiled and cooled water)
Heavy Metals	≤5 mg/g
Water Content (Karl Fisher)	≤ 14%
pH	5 -8
Mould and Yeast	≤ 100 cfu/g
Specific Rotation	[α] _{D20} = 160 -164 °
Reducing Sugars	≤ 0.2%
E. Coli	Absent
Microbial Count	≤ 1000 cfu/g (TAMC)
Salmonella	Absent
Related Substances	Alpha Form : ≤ 0.25% Gamma Form : ≤ 0.25% Other related substances : ≤ 0.5% Light absorbing impurities from 230 to 350 nm : ≤ 0.1% Light absorbing impurities from 350 to 750 nm : ≤ 0.05%
Residue On Ignition	≤ 0.1%
Assay (anhydrous basis)	98 -102%
Specification Reference	Meets USP specification
1H NMR	Pass test
IR	Pass test
Raman	Pass test

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