

Technical Data Sheet

D-Mannose

Compound Information

Product Name:	D-Mannose
CAS No.:	3458-28-4
Molecular Formula:	C ₆ H ₁₂ O ₆
Molecular Weight:	180.16
Storage:	Store at RT
Revision Date:	2026-04-15

Analytical Information

Tests	Specifications
Odor	Odorless to slightly sweet odor
Bulk density	0.25 - 0.60 g/cm ³
Heavy Metals	≤10 µg/g
Cation	Arsenic (As): ≤1 µg/g, Lead (Pb): ≤1 µg/g, Mercury (Hg): ≤0.5 µg/g, Cadmium (Cd): ≤0.5 µg/g
Mould and Yeast	≤ 100 cfu/g
Specific Rotation	[α] _{20D} = 13 -15 °
LOD	≤ 0.5%
Purity by HPLC	≥ 99%
Appearance	White crystalline powder
Melting Point	133-140 °C(lit.)
E. Coli, Salmonella, S.Aureus	Absence
Microbial Count	Total Plate Count: ≤ 1000 cfu/g
Mesh Size	90% through 20 mesh, 70-100% through 80 mesh
Particle Size	≥90% through 20 mesh, 70-100% through 80 mesh
Specification Reference	Suitable for cell culture
1H NMR	Pass test
IR	Pass test
Raman	Pass test

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