

JIANGSU KHONOR CHEMICALS CO.,LIMITED

TECHNICAL DATA SHEET

Description

D-Mannose is a naturally occurring monosaccharide derived from plants such as corn and birch. It is widely used in dietary supplements, food products, and nutraceuticals due to its role in urinary tract health and carbohydrate metabolism support.

Product Identification

Chemical Name: D-Mannose
Synonyms: Mannose; D-Manno-hexose
Molecular Formula: C₆H₁₂O₆
Molecular Weight: 180.16
CAS Number: 3458-28-4
EC/EINECS Number: 222-392-4
Appearance: White crystalline powder
Odor: Odorless

Specifications (Food Grade / Supplement Grade)

Content	%	99
Melting point	°C	126-134
Specific rotation	°	-1
Bulk density	g/cm ³	0.30-0.50
Lose on drying	≤%	0.5
Residue on ignition	≤%	0.1
Heavy metal	≤ppm	10
Arsenic	≤ppm	1
Cadmium	≤ppm	0.5
Lead	≤ppm	1
Mercury	≤ppm	0.1
Total Plate Count	≤cfu/g	1000
Total Yeasts & Molds ≤cfu/g		100

Production Method

Produced through **enzymatic isomerization** or **purification from natural plant sources** (mainly corn), followed by crystallization and drying. Fully compliant with food-grade processing standards.

Applications

Dietary supplements for **urinary tract health** support

Functional foods & beverages
Pharmaceutical intermediates
Nutrition and metabolism regulation ingredients
Personal care / cosmetic formulations

Packaging & Storage

Packaging: 25 kg cardboard drums / fiber drums / kraft paper bags with plastic inner liner

Storage: Store in a cool, dry and well-ventilated place

Shelf Life: 24 months in original unopened packaging

Regulatory & Quality

Food Grade

Complies with major international food safety standards

Allergen-free, Non-GMO

Certificates available: COA, MSDS, ISO, KOSHER, HALAL (upon request)

