

# 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/cm3	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)

