



TECHNICAL DATA SHEET

1. Product Information

Product Name: Magnesium L-Aspartate

CAS Number: 18962-61-3

Molecular Formula: $C_8H_{12}MgN_2O_8$

Molecular Weight: 288.49

EINECS No.: 242-703-7

2. Specifications

Parameter	Specification
Appearance	White crystalline powder
Solubility	Clear and colorless in water
Identification	Pass test
Content (anhydrous basis, %)	98.0 – 102.0
pH	6.0 – 8.0
Specific optical rotation	+22.0 to +24.0
Ninhydrin-positive substances	Pass test
Chloride (ppm)	≤ 200
Sulfate (ppm)	≤ 500
Ammonium (ppm)	≤ 200
Iron (ppm)	≤ 50
Heavy metals (ppm)	≤ 10
Arsenic (ppm)	≤ 1
Readily oxidizable substances	Pass test
Water content (%)	10.0 – 14.0

3. Product Description

Magnesium L-Aspartate is a high-purity amino acid chelated magnesium compound, appearing as a white crystalline powder. It is widely used in

nutritional supplements, pharmaceutical formulations, and functional food applications, providing a bioavailable source of magnesium and aspartic acid.

4. Applications

- Dietary supplements (capsules, tablets, powders)
- Functional foods and nutraceutical formulations
- Pharmaceutical raw materials for magnesium supplementation
- Sports nutrition and energy metabolism support

5. Packaging

- Woven bags , 25 kg per bag
- Fiber drum or PE-lined kraft bags available upon request
- Jumbo bags for bulk shipment available

6. Storage and Handling

- Store in a cool, dry, and well-ventilated area
- Keep container tightly closed
- Avoid moisture, heat, and direct sunlight
- Handle according to GMP practices

7. Shelf Life

- **24 months** under recommended storage conditions

8. Safety Information

- Non-hazardous under normal industrial handling conditions
- Avoid dust inhalation and contact with eyes
- Use protective gloves and mask during handling
- Refer to MSDS for detailed safety information