



TECHNICAL DATA SHEET

Product Name: Magnesium Bisglycinate

Synonyms: Magnesium Diglycinate, Bisglycinato Magnesium

Appearance: White crystals or crystalline powder

Molecular formula: $C_4H_8MgN_2O_4$

CAS number: 14783-68-7

HS CODE: 2922499990

TYPICAL SPECIFICATIONS

Appearance		White crystals or crystalline powder
Magnesium (on dried basis)	≥%	11.0-22.0 (customizable)
pH (1% solution)		9.0-12.0
Cadmium	≤ppm	1
Mercury	≤ppm	0.1
Lead	≤ppm	3
Arsenic	≤ppm	1
Loss on drying	%	1.0
Total Plate Count	≤CFU/g	1000

APPLICATIONS

Dietary Supplements

- Magnesium capsules
- Tablets
- Powder blends
- Gummies
- Effervescent formulations

Functional Foods & Beverages

- Sports nutrition products
- Protein powders
- Nutritional drinks

- Meal replacement products

Pharmaceutical Industry

- Mineral supplementation
- Magnesium deficiency management
- Bone health formulations
- Nervous system support products

Animal Nutrition

- Premium feed additives
- Pet nutrition supplements

Functional Benefits

- High magnesium bioavailability
- Excellent absorption efficiency
- Gentle on the digestive system
- Reduced laxative effect compared with magnesium oxide
- Supports muscle and nerve function
- Promotes bone health
- Helps maintain normal energy metabolism
- Supports cardiovascular health

Physical Properties

Property	Value
Color	White to Off-White
Odor	Characteristic
Form	Powder
Bulk Density	0.40 – 0.70 g/cm ³
Stability	Stable under normal conditions

PACKAGING

25kg cardboard drum
 25kg kraft bag
 25kg Woven bag
 1000kg jumbo bags
 Custom packaging available upon request

STORAGE & HANDLING

Storage: Store in a cool, dry place away from direct sunlight and moisture, in well-sealed containers

Handling precautions: Avoid dust formation and inhalation; follow standard chemical hygiene practices

Shelf life: 2 years under recommended storage conditions

Regulatory Status

- Suitable for use in food supplements and nutraceutical formulations subject to local regulations.
- Manufactured in accordance with GMP and HACCP principles.
- Non-GMO
- BSE/TSE Free
- Allergen Free (upon request)

SAFETY & TRANSPORT

Classification: Non-hazardous

Toxicity: Considered safe at recommended dietary levels; excessive intake may lead to gastrointestinal discomfort

Transport: Not classified as dangerous goods

