



TECHNICAL DATA SHEET

Product Name: Magnesium Malate

CAS No.: 869-06-7

EINECS No.: 212-784-3

Molecular Formula: C₄H₄MgO₅

Molecular Weight: 156.38 g/mol

1. Product Description

Magnesium Malate is a white or off-white crystalline powder, widely used as a magnesium supplement in dietary and nutritional products. It is a combination of magnesium and malic acid, providing both magnesium ions and malate for enhanced bioavailability. Magnesium Malate is recognized for its role in supporting muscle function, energy metabolism, and bone health..

2. Typical Specification

Parameter	Specification
Appearance	White crystal or powder
Assay (dry basis)	≥%
	98.0
Content of Mg (dry basis)	%
	11.3-15.6
Lead	≤ppm
	2
Arsenic	≤ppm
	3
Mercury	≤ppm
	1
Heavy metal (as Pb)	≤ppm
	10
Calcium	≤%
	0.5
Loss on drying	%
	15-20

3. Packaging

25 kg woven bags with PE inner liner

4. Applications

Dietary Supplements – Capsules, tablets, and powders

Nutraceuticals – Energy support, anti-fatigue formulations

Functional Foods – Fortified foods and beverages

Pharmaceuticals – Magnesium deficiency therapy

5. Storage & Handling

Store in a cool, dry, and well-ventilated area

Avoid contact with moisture and direct sunlight

Keep the packaging tightly closed when not in use

6. Safety & Regulatory Information

GRAS Status: Generally Recognized As Safe (FDA)

Food Additive Number: Not applicable (used as mineral supplement)

Handling: Avoid dust formation. Use proper ventilation and PPE.