



TECHNICAL DATA SHEET

Product Name: Magnesium Glycerophosphate

CAS Number: 927-20-8

Molecular Formula: $C_3H_7MgO_6P$

Molecular Weight: 194.36

EINECS No.: 213-149-3

EC Code: Not allocated

1. Product Description

Magnesium Glycerophosphate is a white to off-white crystalline powder used as a nutritional supplement, dietary ingredient, or food additive. It is a stable, bioavailable source of magnesium and phosphorus and is often used in pharmaceutical formulations, health foods, and beverages. It provides dual benefits of magnesium and phosphate, both essential for energy metabolism, bone health, and neurological function.

2. Specification

Parameter	Specification
Appearance	White or off-white powder
Bulk density	0.65g/cm ³
Tapped density	0.75g/cm ³
Particle size	60 - 100 mesh
Melting point	168-220°C
Identification	Positive
Acidity	≤ 1.5mL
Glycerol & ethanol(96%)-soluble subs.	≤ %1.5
Assay (as Mg)	11.0% – 12.5%
Assay (as Glycerophosphate)	≥ 85.0%
pH (1% solution)	6.0 – 8.5
Loss on Drying	≤ 12.0%
Heavy Metals (Pb)	≤ 10 ppm
Arsenic (As)	≤ 1 ppm
Chloride	≤ 0.15%
Sulfate	≤ 0.1%
Microbiological Standards	
Total Plate Count	≤ 1000 CFU/g
Yeast & Mold	≤ 100 CFU/g
E. Coli	Negative
Salmonella	Negative

3. Applications

Nutritional supplements – as a magnesium source

Infant formula and medical foods

Pharmaceutical preparations – magnesium tablets, capsules

Sports nutrition and fortified drinks

4. Packaging and Storage

Packaging: 25 kg net weight per fiber drum or paper bag, inner with PE liner

Shelf Life: 24 months when properly stored

Storage Conditions: Store in a cool, dry place, away from light and moisture

5. Regulatory Status

Food grade, conforms to FCC / USP standards (depending on grade)

Manufactured under ISO and HACCP-certified facilities

Non-GMO, Allergen-Free, BSE/TSE-free

