



TECHNICAL DATA SHEET

Product Name: Calcium Glycerophosphate

CAS Number: 27214-00-2

Molecular Formula: C₃H₇CaO₆P

Molecular Weight: 210.37

EINECS No.: 248-330-3

EC Code: E383

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 crystalline powder
Bulk density	g/cm ³ 0.75
Particle size	60 - 100 mesh
Tapped density	g/cm ³ 0.82
Identification	Pass test
Content of Calcium (dry basis)	% 18.6-19.4
Appearance of solution	Pass test
Acidity or alkalinity	Pass test
Citric acid	Pass test
Glycerol and ethanol soluble subs.	≤% 0.5
Chloride	≤ppm 500
Phosphate	≤ppm 400
Sulfate	≤% 0.1
Arsenic	≤ppm 3
Iron	≤ppm 50
Heavy metal	≤ppm 20
Loss on drying (4h@150°C)	≤% 12
Total Plate Count	≤ 1000 CFU/g
Yeast & Mold	≤ 100 CFU/g
E. Coli	Negative
Salmonella	Negative

3. Applications

Nutritional supplements – as a calcium source

Infant formula and medical foods

Pharmaceutical preparations – calcium tablets, capsules, syrups

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