

**TECHNICAL DATA SHEET****Product Name:** Calcium Glycerophosphate**CAS Number:** 27214-00-2**Molecular Formula:**  $C_3H_7CaO_6P$ **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 <sup>3</sup>	0.75
Particle size		60 - 100 mesh
Tapped density	g/cm <sup>3</sup>	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