



TECHNICAL DATA SHEET

Product Name: Calcium Magnesium Citrate

Supplier: Jiangsu Khonor Chemicals Co., Limited

1. Product Description:

Calcium Magnesium Citrate is a white or off-white powder or granular compound composed of calcium and magnesium salts of citric acid. Known for its **superior bioavailability, gentle digestion, and excellent solubility**, it is widely used in premium nutritional products for all age groups.

This product is **fully customizable**:

Particle size can range from coarse granules to **ultrafine powder** suitable for suspension in liquids.

Calcium-to-magnesium ratio can be tailored to meet specific nutritional requirements.

It is ideal for use in **liquid calcium-magnesium nutritional drinks**, especially for **children and teenagers**, where high absorption and taste-masking are critical.

2. Chemical Properties:

Parameter	Specification
Appearance	White or off-white powder/granule
Calcium Content (as Ca)	13.0% – 15.0% (Customizable)
Magnesium Content (as Mg)	3.5% – 4.5% (Customizable)
pH (1% solution)	5.0 – 7.5
Solubility	Partially soluble in water
Mesh Size	20–100 mesh or ultrafine powder
Loss on Drying	≤ 10.0%
Heavy Metals (Pb)	≤ 10 ppm
Arsenic (As)	≤ 1 ppm
Total Plate Count	≤ 1,000 CFU/g
Yeast & Mold	≤ 100 CFU/g
Salmonella / E. coli	Negative

3. Customization Options:

Mesh Size: Available as coarse powder (20–60 mesh), fine powder (80–100 mesh), and **ultrafine powder (<200 mesh)** for liquid product applications

Calcium-Magnesium Ratio: Custom ratios such as 2:1, 3:2, 1:1, or per customer request

4. Applications & Usage:

➤ Application Areas:

Nutritional supplements (powders, tablets, capsules, sachets)

Liquid calcium-magnesium supplements for pediatric or teenage nutrition

Functional foods and fortified beverages

Sports and recovery formulas
Medical and pharmaceutical nutrition

➤ **Usage Effects & Benefits:**

Bone development: Enhances bone density and growth in adolescents

Muscle & nerve function: Supports smooth muscle contraction, relaxation, and nerve signal transmission

Digestive tolerance: Citrate form is better tolerated than carbonates or oxides

No side effects: Does not cause constipation or stomach discomfort

Rapid absorption: Especially in liquid form with ultrafine grade

➤ **Ideal for:**

Children and teenagers with high calcium demand for bone growth

Elderly individuals with reduced calcium absorption

Pregnant and breastfeeding women

Athletes requiring mineral replenishment

People with sensitive digestive systems

➤ **Suggested Dosage:**

Adults: 500–1000 mg elemental calcium & 250–500 mg magnesium per day

Youth (6–18 years): 500–800 mg calcium + 200–400 mg magnesium, or as recommended

Actual dosage depends on local regulations and formulation targets

5. **Packaging:**

25 kg kraft paper bag or fiber drum with PE liner

Custom packaging available upon request (small packs, sachets, OEM/ODM)

6. **Shelf Life:**

24 months in sealed original packaging under proper storage conditions

7. **Storage Guidelines:**

Keep in a dry, cool, and well-ventilated place. Avoid exposure to sunlight, humidity, and contamination. Seal tightly after use.

8. **Certification & Quality:**

This product is manufactured in compliance with:

ISO 9001, ISO 22000

GMP (Good Manufacturing Practices)

Halal, Kosher

REACH & FDA compliance available upon request

Full documentation and third-party test reports can be provided for regulatory submissions or customer audits.

9. **Supplier's Note:**

Jiangsu Khonor Chemicals Co., Limited provides **high-quality, customizable Calcium Magnesium Citrate** tailored for global markets.

With **ultrafine powder grades** optimized for **liquid calcium-magnesium supplements**, our product is particularly suited for **teen nutrition** and **advanced formulations**. Whether you need a specific **Ca:Mg ratio**, **ultrafine mesh**, or **regulatory certification**, we are ready to support your product development and market expansion.