



TECHNICAL DATA SHEET

Product Name: Magnesium Citrate (Anhydrous & Nonahydrate)

Chemical Name: Magnesium Citrate

Synonyms: Citric acid magnesium salt

Molecular Formula:

Anhydrous: C₆H₅MgO₇

Nonahydrate: C₆H₅MgO₇·9H₂O

CAS No.:

Anhydrous: 3344-18-1

Nonahydrate: 144-23-0

EINECS No.:

Anhydrous: 222-093-9

Nonahydrate: 205-616-4

E Code (Food Grade): E345

SPECIFICATION

| | | |
|--------------------------|----------------------------------|----------------------------------|
| Description | White to off-white powder | White crystalline powder |
| Identification | Positive for Magnesium & Citrate | Positive for Magnesium & Citrate |
| Assay (as Mg) | 14.5% – 16.4% | 14.5% – 16.4% |
| pH (5% solution) | 5.0 – 9.0 | 5.0 – 9.0 |
| Heavy Metals | ≤ 10 ppm | ≤ 10 ppm |
| Arsenic | ≤ 1 ppm | ≤ 1 ppm |
| Lead | ≤ 1 ppm | ≤ 1 ppm |
| Oxalate | ≤ 0.3% | ≤ 0.3% |
| Chloride | ≤ 0.05% | ≤ 0.05% |
| Sulfate | ≤ 0.2% | ≤ 0.2% |
| Loss on Drying | ≤ 2.5% | ≤ 29% |
| Solubility (5% in water) | Soluble | Soluble |

APPLICATION

Food Grade:

Used as a **magnesium supplement** in nutritional and dietary applications, effervescent tablets, and beverages.

Industrial Grade:

Used in water treatment, cosmetics, detergents, and buffering agents.

STORAGE & HANDLING

Store in a **cool, dry, and well-ventilated** area away from moisture and incompatible substances.

Keep container tightly closed.



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Use **clean equipment** and **avoid cross-contamination** for food-grade handling.

SAFETY & TRANSPORT

Not classified as hazardous for transport (non-dangerous goods).

Handle with standard protective equipment (gloves, dust mask).

Avoid contact with eyes and inhalation of dust.

Complies with **GHS** safety labeling requirements.