Magnesium Malate

$C_4H_{10}MgO_8$ · CAS 869-06-7 · Magnesium DL-malate, dihydrate

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Magnesium DL-malate, dihydrate	$C_4H_{10}MgO_8$	869-06-7	11.3–11.8% (complexometric EDTA)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Complexometric EDTA titration	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Magnesium DL-malate dihydrate specified at 11.3–11.8% elemental magnesium, for capsules and tablets where the malate salt and the water content have to be declared.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Magnesium (Mg)	11.3–11.8% (complexometric EDTA)	As stated
Appearance	White to off-white powder	As stated
Identification	Malate reaction and IR conform	As stated
Water (Karl Fischer)	22.0–26.5%	As stated
pH (5% suspension)	4.0–7.0	As stated
Particle size	≥95% through 80 mesh	As stated
Bulk density	0.50–0.85 g/mL	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Marker set	Magnesium (11.3–11.8%, dihydrate)	Identity
Solubility	Sparingly soluble in water; soluble in hot water.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes
- Gummies and chews

AVAILABLE FORMS

- Dihydrate powder, 80 mesh
- Granulated on request
- Milled to 100 mesh on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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