Magnesium L-Threonate

$C_8H_{14}MgO_{10}$ · CAS 778571-57-6 · Magnesium L-threonate, crystalline

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Magnesium L-threonate, crystalline	$C_8H_{14}MgO_{10}$	778571-57-6	98.0–102.0% (titration)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Titration	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Magnesium L-threonate specified at 98.0–102.0% on the dried basis and 7.2–8.3% elemental magnesium, for capsules where the L-threonate identity and the low magnesium content have to be declared.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Magnesium L-threonate (dried basis)	98.0–102.0% (titration)	As stated
Magnesium (Mg)	7.2–8.3% (titration)	As stated
Appearance	White to off-white crystalline powder	As stated
Identification	IR and L-threonate reaction conform	As stated
pH (5% solution)	5.8–9.0	As stated
Loss on drying	≤5.0%	As stated
Particle size	≥95% through 80 mesh	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 L-threonate (98.0–102.0%, dried basis); Mg 7.2–8.3%	Identity
Solubility	Freely soluble in water; the 5% solution is slightly acidic to alkaline (pH 5.8–9.0).	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

AVAILABLE FORMS

- Crystalline 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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