Magnesium Sulfate

$MgSO_4 \cdot 7H_2O$ · CAS 10034-99-8 · Magnesium sulfate heptahydrate, crystals or powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Magnesium sulfate heptahydrate, crystals or powder	$MgSO_4 \cdot 7H_2O$	10034-99-8	≥99.0%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Complexometric titration	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Magnesium sulfate heptahydrate specified at ≥99.0% with 9.5–10.0% elemental magnesium; the hydrate state, the sulfate and the water content are part of the specification.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (titration)	≥99.0%	As stated
Magnesium (titration)	9.5–10.0%	As stated
Appearance	Colourless crystals or white powder	As stated
Identification	IR and titration conform	As stated
Water (Karl Fischer)	48.0–52.0%	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 sulfate heptahydrate ≥99.0%; Mg 9.5–10.0%	Identity
Solubility	Freely soluble in water; the solution is neutral.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

AVAILABLE FORMS

- Powder, 40 mesh
- Crystals 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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