Magnesium Bisglycinate Hydrate

$C_4H_8MgN_2O_4 \cdot xH_2O$ · CAS 14783-68-7 · Magnesium bisglycinate hydrate, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Magnesium bisglycinate hydrate, powder	$C_4H_8MgN_2O_4 \cdot xH_2O$	14783-68-7	11.0–12.5%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Complexometric titration (Mg), HPLC glycine and loss on drying	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Magnesium bisglycinate hydrate specified at 11.0–12.5% magnesium with a 1:2 magnesium–glycine ratio and 8–14% water; the hydrate and the ratio are the specification.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Magnesium (complexometric)	11.0–12.5%	As stated
Glycine (HPLC)	1:2 Mg : glycine ratio	As stated
Loss on drying	8.0–14.0%	As stated
Appearance	White to off-white powder	As stated
Identification	Glycine and Mg conform	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
Particle size	≥95% through 80 mesh	As stated
Marker set	Magnesium 11.0–12.5%; Mg : glycine 1:2	Identity
Solubility	Soluble in water; the solution is clear to slightly opalescent.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

AVAILABLE FORMS

- Powder, 80 mesh
- Granulated on request

PACKING

- 1 kg foil pouch

STORAGE

• 25 kg fiber drum	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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