# Manganese Sulfate

*$MnSO_4 \cdot H_2O$ · CAS 10034-96-5 · Manganese sulfate monohydrate, powder*

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

| CHEMICAL FORM | FORMULA | CAS | PRIMARY ASSAY |
|---|---|---|---|
| Manganese sulfate monohydrate, powder | $MnSO_4 \cdot H_2O$ | 10034-96-5 | ≥98.0% |
| **METHOD** | **MINIMUM ORDER** | **LEAD TIME** | **STANDARD PACK** |
| Complexometric titration | 1 kg | 1–7 days | 1 kg foil pouch · 25 kg fiber drum |

## DESCRIPTION

Manganese sulfate monohydrate specified at ≥98.0% with 31.5–33.0% elemental manganese; the hydrate state and the manganese figure are part of the specification.

## SPECIFICATION

| PARAMETER | SPECIFICATION | METHOD / NOTE |
|---|---|---|
| Assay (titration) | ≥98.0% | As stated |
| Manganese (titration) | 31.5–33.0% | As stated |
| Appearance | Pale pink powder | As stated |
| Identification | IR and titration conform | As stated |
| Water (Karl Fischer) | 10.0–12.0% | 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 |
| Particle size | ≥95% through 40 mesh | As stated |
| Marker set | Manganese sulfate monohydrate ≥98.0%; Mn 31.5–33.0% | Identity |
| Solubility | Freely soluble in water; the solution is acidic. | Matrix dependent |

## APPLICATIONS

- Capsules and tablets
- Powder blends

## AVAILABLE FORMS

- Powder, 40 mesh
- Granulated on request

## PACKING

- 1 kg foil pouch

## STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling.

- 25 kg fiber drum

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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