

Manganese Sulfate Monohydrate

manganese(II) sulfate monohydrate | CAS 10034-96-5

Product identification

Product name	Manganese Sulfate Monohydrate
Chemical name	Manganese(II) sulfate monohydrate
CAS number	10034-96-5
EC number	600-072-9
PubChem CID	177577
Molecular formula	MnSO4·H2O
Molecular weight	169.02 g/mol
InChIKey	ISPYRSDWRDQNSW-UHFFFAOYSA-L
SMILES	O.[O-]S(=O)(=O)[O-].[Mn+2]
Material type	Analytical chemical / laboratory reagent

Material description

Manganese Sulfate Monohydrate is a hydrated inorganic manganese(II) salt supplied by Rexar as an analytical chemical for laboratory and technical applications. It is typically encountered as pale pink to light red crystals or crystalline powder.

Intended use

For laboratory, analytical, chemical, reagent-preparation, quality-control and research applications. Not for human or animal consumption. Not intended for food, supplement, cosmetic, medical, diagnostic or therapeutic use.

Reference characteristics

Structural class	Hydrated inorganic manganese(II) sulfate
Typical physical form	Pale pink / light red crystalline powder or crystals
Water solubility	Soluble in water
Solution pH	Approximately 3.7 for a 5% solution (reference value)
Storage guidance	Keep tightly closed and dry. Avoid dust generation and uncontrolled environmental release.

Analytical use and traceability

Lot-specific purity, assay, impurities, water content and analytical acceptance criteria must be taken from the applicable supplier documentation or certificate of analysis.

Safety note

Public EU-aligned supplier and regulatory information commonly classifies manganese sulfate monohydrate for specific target organ toxicity following repeated exposure (STOT RE 2, H373) and chronic aquatic toxicity (Aquatic Chronic 2, H411). Confirm the exact supplier SDS for the supplied grade.

Identity verification note

Identity verified against PubChem CID 177577 and current supplier/ECHA-linked information: CAS 10034-96-5, EC 600-072-9, $\text{MnSO}_4 \cdot \text{H}_2\text{O}$, 169.02 g/mol and InChIKey ISPYRSDWRDQNSW-UHFFFAOYSA-L.

Document control

Document	Rexar Technical Compound Datasheet
Revision	10 September 2026
Status	Reference information; not a certificate of analysis

Disclaimer

This document is provided for chemical identification and laboratory reference purposes. It does not certify batch purity or replace lot-specific analytical or safety documentation.