

Manganese (II) sulphate monohydrate

Meets USP-NF, EP and BP testing specifications

Product Code: TC149M

Product Description :

Molecular weight : 169.02

Molecular formula : $\text{MnSO}_4 \cdot \text{H}_2\text{O}$

CAS No.: 10034-96-5

Quality Control:

Appearance (EP, BP)

Pale pink crystalline powder, slightly hygroscopic.

Appearance (USP)

Pale red, slightly efflorescent crystals, or purple powder

Solubility (EP, BP)

Freely soluble in water, practically insoluble in ethanol (96%)

Solubility (USP)

Soluble in water; insoluble in alcohol

Identification A : sulfates (EP, BP)

Complies

Identification A : Manganese (USP)

Meets the requirements

Identification B : Sulfates (USP)

Meets the requirements

Identification B (EP, BP)

A pale pink precipitate is formed which dissolves on the addition of 1 mL of anhydrous acetic acid R.

Identification C : Loss on ignition (EP, BP)

10.00 -12.00% (at $500 \pm 50^\circ\text{C}$)

Appearance of solution (EP, BP)

Solution S is not more opalescent than reference suspension II

Chlorides (EP, BP)

$\leq 0.01\%$

Iron (EP, BP)

$\leq 0.001\%$

Zinc (EP, BP)

$\leq 0.05\%$

Substances not precipitated by ammonium sulfide (USP)

The weight of the residue does not exceed 5 mg (NMT 0.50%)

Loss on ignition (EP, BP)

10.00 -12.00% (at $500 \pm 50^\circ\text{C}$)

Loss on ignition (USP)

10.00 -13.00% (at 450° to constant weight)

Assay (EDTA Titration, on ignited basis) : (EP, BP)

99.00 -101.00%

Assay (EDTA Titration) : (USP)

98.00 -102.00%

Storage and Shelf Life:

Store below 30°C away from bright light.

Self life is 48 months.

Use before expiry date given on the product label.

Revision: 03/2023

Disclaimer :

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