



HANS CHEMICALS PRIVATE LIMITED

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TECHNICAL DATASHEET

MANGANESE SULPHATE MONOHYDRATE

Manganese(II) sulfate usually refers to the inorganic compound with the formula $\text{MnSO}_4 \cdot \text{H}_2\text{O}$. This pale pink deliquescent solid is commercially significant manganese (II) salt. It is the precursor to manganese metal and many other chemical compounds. Mn-deficient soil is remediated with this salt.

Manganese Sulfate can be used as a dietary supplement and as a nutrient. This product has also been used for the treatment of potable water for radium removal. Manganese is important in the breakdown of amino acids and the production of energy. It activates various enzymes for proper digestion and utilization of foods. Manganese also helps nourish the nerves and brain and is necessary for normal skeletal development.

Specification:

Synonyms : Manganese Sulphate, Manganous Sulphate, Mahganous Sulphate H_2O , Manganese Sulphate Hydrate, Manganese (II) Sulphate $1\text{H}_2\text{O}$
Manganese Sulphate Monohydrate,

CAS No. :	10034-96-5
HS Code :	2833 29 40
EC :	232-089-9
Molecular Formula :	$\text{MnSO}_4 \cdot \text{H}_2\text{O}$
Molecular Weight :	169.02
Apperance :	Pinkiesh White Powder
Purity(Dry Basis) :	Min.99%
Mn Content :	Min.32%
pH of 5% w/v Solution :	
Clarity (10% Aq. Solution) :	Clear
Water Insoluble:	0.1% max.
Bulk Density :	1.20 -1.40
Melting Point :	700°C
Boiling Point :	850°C

Impurities:	
Chloride :	250ppm Max
Iron as Fe :	50ppm Max
Lead as Pb:	5ppm Max
Cadmium as Cd :	5ppm Max
Arsenic as As :	5ppm Max
Zinc As Zn:	5ppm Max
Nickel as Ni:	60ppm Max
Antimony :	Nil
Cobalt :	60ppm Max
Mercury as Hg :	Nil

Application :

- ❖ Manganese Sulphate is used as a porcelain glaze, as a fertilizer additive and as a catalyst.
- ❖ It is added to soils to promote plant growth, especially of citrus crops. It is a good reducing agent for manufacturing paints, varnish driers.
- ❖ It is used in textile dyes, fungicides, medicines and ceramics.
- ❖ In foods, it is used as a nutrient and dietary supplement.
- ❖ It is also used in ore flotation, as a catalyst in viscose process and in synthetic manganese dioxide.
- ❖ In veterinary medicine, it is used as a nutritional factor and in the prevention of perosis in poultry.
- ❖ Manganese Sulphate is also used as laboratory reagent.