

Manganese sulphate monohydrate

(Agriculture Grade)

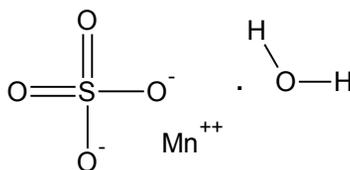
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Synonyms

Manganese monosulfate monohydrate; Manganese(II) sulfate monohydrate; Manganous sulfate monohydrate

Chemical structure and identity



Molecular formula	MnSO ₄ .H ₂ O
Molecular weight	169.02
CAS number	10034-96-5
EINECS number	232-089-9
UN number	3077
HS code	28332940

Specifications

Appearance	White to light-pink coloured powder
Purity (on dry basis)	98.7% minimum
Manganese content	32% minimum
Moisture (LOD)	0.3% maximum
Water insolubles at pH 5	0.1% maximum

Other metal content:

Iron	50 ppm maximum
Arsenic	2 ppm maximum
Cadmium	2 ppm maximum
Lead	15 ppm maximum
Mercury	0.3 ppm maximum
Aluminum	15 ppm maximum
Nickel	100 ppm maximum
Cobalt	100 ppm maximum
Calcium	0.5% maximum

Physical properties

pH of 10% solution	5.5 to 7.0
Bulk density	0.9 to 1.7 g/ml

Description

Manganese sulphate monohydrate is a white to light-pink coloured powder and highly soluble in water.

Applications

Intermediate for agrochemicals and as a soil micronutrient

Packaging

Manganese sulphate monohydrate is available in 25 kg HDPE bags and 1,000 kg, 1,200 kg or 1,250 kg jumbo bags.

Shelf life

36 months from the date of manufacturing

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Storage and handling

Keep containers tightly closed and store in a cool, dry and well-ventilated area. Protect the containers against physical damage. Avoid contact with eyes, skin or clothing. Always refer to the Safety Data Sheet (SDS) for detailed information on storage and handling.

Safety

Wear protective gloves, a dust mask and goggles. Keep material away from foodstuffs, beverages and feed. Wash hands thoroughly after handling this product. Do not inhale its dust, smoke or mist. Always refer to the SDS for detailed information on safety.

First aid

Eye contact: Rinse eyes in open position for several minutes with plenty of water. Consult a physician immediately.

Skin contact: Wash the affected area thoroughly with soap and water. Remove contaminated clothing. Consult a physician immediately.

Ingestion: Avoid ingestion as the product is harmful. Do not induce vomiting. Consult a physician immediately.

Inhalation: Avoid inhalation as the product is harmful. Shift the affected person to fresh air. In case of irregular breathing or respiratory arrest, provide artificial respiration. Consult a physician immediately on suspicion of intoxication.

Spills and disposal

In case of a spill, collect spilled material mechanically and place in a suitable closed container for subsequent disposal. Avoid generation of dust. Do not allow the spilled material to enter sewers, surface or groundwater. Dispose of the contents | container(s) in accordance with local, regional, national or international regulations | guidelines, as applicable.

Contact

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