

MANGANESE SULPHATE MONOHYDRATE SPECIFICATIONS

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|-----------------------|-------------------------------------|
| 1. Name: | Manganese Sulphate Monohydrate |
| 2. Molecular Formula: | MnSO ₄ .H ₂ O |
| 3. Molecular Weight: | 169 |
| 4. CAS No: | 7785-87-7 |

PHYSICAL CHARACTERISTICS

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|--|---------------------------|
| 1. Description: | White to pale pink powder |
| 2. Bulk Density: | 1.20 - 1.40 g/cc |
| 3. Dissolution Test:
(10% Solution) | Clear Solution |

CHEMICAL CHARACTERISTICS

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|------------------------|-------------|
| 1. Purity (dry basis): | 98.5 % Min |
| 2. Manganese (Mn): | 32% Min |
| 3. Chloride (Cl): | 0.035% Max |
| 4. Iron (Fe): | 0.003% Max |
| 5. Lead (Pb): | 10 ppm Max |
| 6. Arsenic: | 2 ppm Max |
| 7. Mercury: | 0.5 ppm Max |
| 8. Antimony: | 0.0015% Max |
| 9. Insoluble matter: | 0.1% Max |
| 10. Moisture: | 0.50% Max |

PACKING INFORMATION

1. 25 Kg HDPE woven bags with LDPE liner
2. 50 Kg HDPE woven bags with LDPE liner

INDUSTRIAL APPLICATIONS

1. **Fertilizer industry** - Applied to soils or as a foliar application for cereal production where a history of manganese deficiency exists. Also, provides manganese to the crop immediately because it is readily soluble.
2. **Animal feed** – used as a feed grade and agriculture grade feed supplement which inculcates 32% Manganese.