

Epsom Salt

chemically pure, FCC

Magnesium Sulphate Heptahydrate ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$)

Purity and properties correspond to the requirements of the a.m. regulation (see enclosed table for values/limits)

Nature of Product: white crystals

Chemical Analysis:

| | w | typ. |
|--|----------|-------------|
| • Magnesium Sulphate (MgSO_4) | % | 49.2 |
| • Water (H_2O) | % | 50.7 |
| • Na | mg/kg | 35 |
| • K | mg/kg | 700 |
| • Ca | mg/kg | 10 |
| • Cl | mg/kg | 60 |

Granulometry:

| | typical |
|------------|----------------|
| • < 1 mm | 70 % |
| • d_{50} | 0.75 mm |

Physical Properties:

- Bulk Density ca. 980 kg/m³
- Molecular Weight 246.48 g/mol
- Solubility in water w (MgSO_4) = 26.3 % at 20 °C (68 °F)
readily soluble, practically without residues; always vigorously stir the salt into water or solution

Special characteristics:

Depending on ambient temperature and prevailing relative humidity the product is prone to absorption of water and dehydration, which can result in caking.

Packaging:

- 25 kg bags, palletised and shrink-wrapped
- Big Bags

The data given above is based on our continuous quality monitoring system. They do not exempt the user from his obligation to make an incoming inspection of the delivered product. The data are for information purposes and do not constitute any guarantee. It is the responsibility of the user to determine the product's suitability for his intended use.

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Limits for Epsom Salt according to FCC

| Parameter | FCC |
|------------------|---|
| Assay | ≥ 99.5 % on the ignited basis |
| Characters | colorless crystal or a granular crystalline powder |
| Solubility | readily soluble in water, slowly soluble in glycerine, and sparingly soluble in alcohol |
| Identification | a 1:20 aqueous solution gives positive tests for Magnesium and for Sulfate |
| Lead | ≤ 4 mg/kg |
| Loss on ignition | 40.0 – 52.0 % |
| Selenium | ≤ 30 mg/kg |

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