

## 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

<b>Chemical Analysis:</b>	<b>w</b>	<b>typical</b>
• Magnesium Sulphate ( $\text{MgSO}_4$ )	%	49.2
• Water ( $\text{H}_2\text{O}$ )	%	50.7
• Na	mg/kg	35
• K	mg/kg	700
• Ca	mg/kg	10
• Cl	mg/kg	60

<b>Granulometry:</b>	<b>typical</b>
• < 1 mm	70 %
• $d_{50}$	0.75 mm

### Physical Properties:

- Bulk Density ca. 980 kg/m<sup>3</sup>
- Molecular Weight 246.48 g/mol
- Solubility in water w ( $\text{MgSO}_4$ ) = 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	$\geq 99.5$ % 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	$\leq 4$ mg/kg
Loss on ignition	40.0 – 52.0 %
Selenium	$\leq 30$ mg/kg

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