



The Soap Kitchen

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Technical Data Sheet

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)

Version 6.1

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Combined nomenclature: 28,332,100

Nature of Product: white crystals

Chemical Analysis:

	typical	w
• Magnesium Sulphate (MgSO_4)	49.1	%
• Water (H_2O)	50.9	%
• Na	40	mg/kg
• K	230	mg/kg
• Ca	60	mg/kg
• Cl	80	mg/kg

Granulometry:

	typical	w
• < 1.0 mm	70	%
• d_{50} [mm]	0.75	

Physical Properties:

• Bulk Density	ca. 980 kg/m ³
• Angle of Repose	ca. 32 °
• Molecular Weight	246.48 g/mol
• Density	1.7 g/cm ³
• 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

The data given above are based on our continuous quality monitoring system. They do not exempt the users from their obligation to make an incoming control of the delivered product. The data are for information purposes only and are not to be taken as a guarantee. It is the responsibility of the users to determine the product's suitability for its intended use.

Limits for Epsom Salt according to FCC

Parameter	FCC VII
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