

SPECIFICATION

Product Name: Magnesium Chloride Food Grade
Chemical Formula: $MgCl_2$
CAS Number: 7786-30-3
Molecular Weight: 203.30 g/mol
Appearance: White powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value
Assay	%	99%
Magnesium Chloride (as $MgCl_2$) by mass	%	47.0%
Sulphur by mass	%	0.20
Arsenic	PPM	<0.50 PPM
Heavy Metals as Lead (Pb)	PPM	< 0.10 PPM
Boron	PPM	<50 PPM
Nickle	PPM	<10 PPM
Iron	PPM	<5.50 PPM
Calcium	PPM	<65 PPM
Aluminium	PPM	<0.50 PPM
Ph	-	In 5 % solution 4.5 to 7
Bromide	-	Free
Microbial	-	Free

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Insoluble in acetone. Soluble in glycerol.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place. Keep the container tightly closed to protect from moisture, as magnesium chloride is highly hygroscopic. Store away from excessive heat and humidity in the original, properly labeled container.

Applications

- Use: Widely used as a source of magnesium in food and dietary supplements. It also functions as a firming agent, mineral fortifier, coagulant (especially in tofu production), and electrolyte in food processing. It is widely used in food, nutraceutical, and pharmaceutical applications.
- Dosage: Depends on its intended application and formulation. In food and dietary supplements, it should be used in accordance with applicable food regulations and product formulation requirements or as directed by a qualified healthcare professional. The appropriate dosage varies based on the product type, age, and nutritional needs.

Packaging

- Standard Packing: 50 Kgs pp bag with inner liner or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.