

**Magnesium nitrate hexahydrate, for analysis, ExpertQ®, ACS, Reag.  
Ph Eur****Identification**

Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
M = 256,41 g/mol  
CAS [13446-18-9]  
EC number: 233-826-7  
Taric code: 2834 29 80

**Applications**

analytical chemistry, laboratory reagent, oxidizing agent.

**Specifications**

assay (complexometric).....	99 - 102 %	barium (Ba).....	max. 0,005 %
insoluble in water.....	max. 0,005 %	calcium (Ca).....	max. 0,005 %
pH (5 %, H <sub>2</sub> O).....	5 - 8,2	heavy metals (as Pb).....	max. 5 ppm
chlorides (Cl).....	max. 0,001 %	iron (Fe).....	max. 5 ppm
phosphates (as PO <sub>4</sub> ).....	max. 0,0005 %	manganese (Mn).....	max. 5 ppm
sulfates (SO <sub>4</sub> ).....	max. 0,002 %	potassium (K).....	max. 5 ppm
ammonium (NH <sub>4</sub> ).....	max. 0,001 %	sodium (Na).....	max. 5 ppm
arsenic (As).....	max. 1 ppm	strontium (Sr).....	max. 0,005 %

**Physical data**

- Appearance: humid crystals, colourless or white
- Spec. Density: 1,46 g/cm<sup>3</sup>
- Solub. in water: (20 °C): 1250 g/l
- Melting point: ~ 89 - 95 °C (decomposes)
- pH(50 g/l H<sub>2</sub>O, 20 °C) 5,0 - 7,0
- Hygroscopic

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

H272: May intensify fire; oxidiser.

**Precautionary Statements:**

- P221: Take any precaution to avoid mixing with combustibles.  
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
P220: Keep / Store away from clothing / combustible materials.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.  
P370+P378: In case of fire: Use ... for extinction.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 5.1 O2 III • UN 1474 • MAGNESIUM NITRATE
- IMDG: 5.1 III • UN 1474 • MAGNESIUM NITRATE
- IATA/ICAO: 5.1 III • UN 1474 • MAGNESIUM NITRATE
- PAX: 559
- CAO: 563
- 10°C - 30°C