

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

MgCl<sub>2</sub>·6H<sub>2</sub>O  
M = 203,30 g/mol  
CAS [7791-18-6]  
EC number: 232-094-6  
Taric code: 2827 31 00

**Applications**

analytical chemistry, laboratory reagent, disinfectant. Extinguishant.

**Specifications**

assay (complexometric).....	99,0 - 101,0 %	ammonium (NH <sub>4</sub> ).....	max. 0,002 %
identity.....	passes test	arsenic (As).....	max. 0,0002 %
appearance of solution.....	passes test	barium (Ba).....	max. 0,002 %
insoluble in water.....	max. 0,005 %	calcium (Ca).....	max. 0,003 %
pH (5 %, H <sub>2</sub> O).....	5,0 - 6,5	copper (Cu).....	max. 0,0005 %
total nitrogen (as N).....	max. 0,0002 %	heavy metals (as Pb).....	max. 0,0005 %
acidity or alkalinity.....	passes test	iron (Fe).....	max. 0,0005 %
bromides (Br).....	max. 0,05 %	lead (Pb).....	max. 0,0005 %
nitrates (NO <sub>3</sub> ).....	max. 0,001 %	manganese (Mn).....	max. 0,0005 %
phosphates (as PO <sub>4</sub> ).....	max. 0,0005 %	potassium (K).....	max. 0,001 %
sulfates (SO <sub>4</sub> ).....	max. 0,002 %	sodium (Na).....	max. 0,001 %
aluminium (Al).....	max. 0,0002 %	strontium (Sr).....	max. 0,005 %
		zinc (Zn).....	max. 0,001 %

**Physical data**

- Appearance: crystals, colourless or white
- Spec. Density: ~ 1,57 g/cm<sup>3</sup>
- Solub. in water: (20 °C): 1670 g/l
- Melting point: ~ 117 °C (decomposes)
- pH(50 g/l H<sub>2</sub>O, 20 °C) 5,0 - 6,5

**Transport/storage**

- 10°C - 30°C