

Magnesium nitrate hexahydrate, EssentQ®**Identification**

Mg(NO₃)₂·6H₂O
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).....	min. 98 %	arsenic (As).....	max. 0,0001 %
insoluble in water.....	max. 0,025 %	calcium (Ca).....	max. 0,05 %
pH (5 %, H ₂ O).....	4,0 - 8,5	copper (Cu).....	max. 0,002 %
acidity (as HNO ₃).....	max. 0,01 %	iron (Fe).....	max. 5 ppm
alkalinity (as MgO).....	max. 0,005 %	lead (Pb).....	max. 0,002 %
chlorides (Cl).....	max. 0,01 %	nickel (Ni).....	max. 0,002 %
sulfates (SO ₄).....	max. 0,01 %	potassium (K).....	max. 0,001 %
ammonium (NH ₄).....	max. 0,01 %	sodium (Na).....	max. 0,001 %

Physical data

- Appearance: humid crystals, colourless or white
- Spec. Density: 1,46 g/cm³
- Solub. in water: (20 °C): 1250 g/l
- Melting point: ~ 89 - 95 °C (decomposes)
- pH(50 g/l H₂O, 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