



# Product Specification

## Product Name: **MAGNESIUM SULFATE Heptahydrate AR**

Alternate Name(s) Epsom Salts

### Description

Colourless crystals; saline bitter taste.

### Properties

Chemical Formula:

Molecular Weight: 246.47

Product Code: MA048

CAS No. 10034-99-8

### General Information:

Soluble in glycerol; very soluble in water; sparingly soluble in alcohol. Non-flammable. Loses 6H<sub>2</sub>O at 150 °C; loses water at 200-250 °C.

### Hazard and Safety Data

UN Group: None Allocated

Class: None Allocated

UN Number: None Allocated

Hazchem code: None Allocated

CS MSDS Code: 1CH44

Poison schedule: Not Scheduled

Emergency

Procedure Guide No.: N/A

### Quality Specification

Assay: 99.0-102.0%.

### Specific Properties and Impurities [Typical levels]:

pH of 5% solution @ 25°C	5.0 - 8.2
Insoluble matter	≤ 0.005%
Chloride (Cl)	≤ 0.0005%
Nitrate (NO <sub>3</sub> )	≤ 0.002%
Ammonium (NH <sub>4</sub> )	≤ 0.002%
Heavy metals (as Pb)	≤ 0.0005%
Calcium (Ca)	≤ 0.02%
Iron (Fe)	≤ 0.0005%
Manganese (Mn)	≤ 0.0005%
Potassium (K)	≤ 0.005%
Sodium (Na)	≤ 0.005%
Strontium (Sr)	≤ 0.005%

CONFORMS TO ACS

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