



CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate

Number. 2317548

Catalogue Number 21311 Lot Number A0471949

Description Magnesium sulfate heptahydrate,99.5%,for analysis

CAS Number 10034-99-8
Quality Test/Release Date 29/Apr/2025
Suggested retest date 29/Apr/2030
Country of Origin SPAIN
Declaration of Origin Mineral

| Result Name | Units | Specifications | Test Value | |
|--------------------------|-------|----------------------|--------------------|--|
| Appearance (Color) | | White | White | |
| Appearance (Form) | | Crystals | Crystals | |
| Titration Complexometric | % | >=99.4 | 100.6 | |
| Heavy metals (as Pb) | ppm | =<5 | 2 | |
| pH | | 5 to 8 (5 % at 25°C) | 5.9 (5 % at 25°C) | |
| Insoluble matter | % | =<0.005 (in water) | =<0.005 (in water) | |
| Chloride (CI) | ppm | =<5 | 2 | |
| Iron (Fe) | ppm | =<5 | =<1 | |
| Manganese (Mn) | ppm | =<5 | =<1 | |
| Calcium (Ca) | ppm | =<50 | =<1 | |
| Sodium (Na) | ppm | =<200 | =<1 | |
| Cadmium (Cd) | ppm | =<5 | =<1 | |
| Cobalt (Co) | ppm | =<5 | =<1 | |
| Potassium (K) | ppm | =<50 | 8 | |
| Strontium (Sr) | ppm | =<50 | =<1 | |

Geert Torfs Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.