# Ferrous Sulfate

*$FeSO_4 \cdot 7H_2O$ · CAS 7782-63-0 · Ferrous sulfate heptahydrate, crystals or powder*

**CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION**

| CHEMICAL FORM | FORMULA | CAS | PRIMARY ASSAY |
|---|---|---|---|
| Ferrous sulfate heptahydrate, crystals or powder | $FeSO_4 \cdot 7H_2O$ | 7782-63-0 | 99.0–101.0% |
| **METHOD** | **MINIMUM ORDER** | **LEAD TIME** | **STANDARD PACK** |
| Complexometric titration | 1 kg | 1–7 days | 1 kg foil pouch · 25 kg fiber drum |

## DESCRIPTION

Ferrous sulfate heptahydrate specified at 99.0–101.0% with 19.5–20.5% elemental iron; the hydrate state, the water content and the oxidation state are part of the specification.

## SPECIFICATION

| PARAMETER | SPECIFICATION | METHOD / NOTE |
|---|---|---|
| Assay (titration) | 99.0–101.0% | As stated |
| Iron (titration) | 19.5–20.5% | As stated |
| Appearance | Pale blue-green crystals or powder | As stated |
| Identification | IR and titration conform | As stated |
| Water (Karl Fischer) | 45.0–48.0% | As stated |
| Heavy metals | Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg | As stated |
| Microbiology | APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent | As stated |
| Marker set | Ferrous sulfate heptahydrate 99.0–101.0%; Fe 19.5–20.5% | Identity |
| Solubility | Freely soluble in water; the solution is acidic and oxidises on standing. | Matrix dependent |

## APPLICATIONS

- Capsules and tablets
- Powder blends

## AVAILABLE FORMS

- Powder, 40 mesh
- Crystals on request

## PACKING

- 1 kg foil pouch

## STORAGE

| | |
|---|---|
| • 25 kg fiber drum | Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA. |

## DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

> **Catalog document.** This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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