



# Product Specification

## Product Name: IRON(II) SULFATE Heptahydrate AR

Alternate Name(s) Ferrous sulfate; green vitriol; sulferrous; Copperas; sal chalybis; iron vitriol;  
Description iron(II) sulfate heptahydrate; iron(II) sulfate hydrate; iron sulfate.

Greenish or yellow-brown crystals or granules; odourless. Due to inherent oxidation, ferric ion (Fe<sup>3+</sup>) content may increase on storage.

### Properties

Chemical Formula:

Molecular Weight: 278.02

Product Code: FA001

CAS No. 7782-63-0

### General Information:

Hygroscopic, forming coating of extremely corrosive basic ferric sulfate.  
Incompatible with alkalis, soluble carbonates and oxidising materials. Non combustible.

### Hazard and Safety Data

UN Group: None Allocated

Class: None Allocated

UN Number: None Allocated

Hazchem code: None Allocated

CS MSDS Code: 1CH39

Poison schedule: Not Scheduled

Emergency

Procedure Guide No.: N/A

### Quality Specification

Assay: 99.5% min.

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

pH Value (5%, 20 °C)	3.0 - 4.0
Arsenic (As)	≤ 0.0002%
Calcium (Ca)	≤ 0.02%
Chromium (Cr)	≤ 0.005%
Copper (Cu)	≤ 0.003%
Iron (III)	≤ 0.2%
Mercury (Hg)	≤ 0.0001%
Potassium (K)	≤ 0.002%
Magnesium (Mg)	≤ 0.02%
Manganese (Mn)	≤ 0.1%
Sodium (Na)	≤ 0.01%
Nickel (Ni)	≤ 0.005%
Lead (Pb)	≤ 0.0002%
Zinc (Zn)	≤ 0.002%
Heavy metals (as Pb)	≤ 0.005%
Chloride (Cl)	≤ 0.01%
Residual solvents	Passes Test

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