



Product Specification

Product Name: IRON(II) SULFATE Heptahydrate TG

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

Properties

Chemical Formula: $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$
Molecular Weight: 278.01

Product Code: FT001
CAS No. 7782-63-0

General Information:

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

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: 98.0% min.

Specific Properties and Impurities [Typical levels]:

Melting Point	64°C
pH Value (50 g/l, H ₂ O, 20 °C)	3 - 4
Specific Gravity	1.89
Release of crystalline water	300 °C
Size	88% min. pass 12 - 60 mesh
Free acid	<0.35%
Titanium dioxide	<0.6%
Water insoluble matter	<0.2%
Arsenic (As)	<0.0005%
Cadmium (Cd)	<0.0004%
Iron (Fe)	19.0% min.
Lead (Pb)	<0.002%
Sulfur (S)	>11.0%

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