

FERROUS SULPHATE HEPTAHYDRATE



General Information

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| Chemical Formula | FeSO ₄ ·7H ₂ O | |
| Synonym | Iron(II) sulfate heptahydrate; Presfersul; Melanterite mineral; | |
| Origin | China | |
| H.S. Code | 2833.29.00 | |
| CAS No. | 7782-63-0 | |
| Molecular Weight | 151.9 g mol ⁻¹ | |

Application

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| Pharmaceutical Industry | Ferrous sulfate is used to fortify foods and to treat iron-deficiency anaemia. Constipation is a frequent and uncomfortable side effect associated with the administration of oral iron supplements. Stool softeners often are prescribed to prevent constipation. |
| Dye and Textile Industry | Ferrous sulfate was used in the manufacture of inks, especially iron gall ink. It is also used in wool dyeing a mordant. There are two different methods for the direct application of indigo dye. One of these is known as china blue and involved iron(II) sulfate. After printing an insoluble form of indigo onto the fabric, the indigo was reduced to leuco-indigo in a sequence of baths of ferrous sulphate. Sometimes, it is included in canned black olives as an artificial colorant. |
| Agricultural Industry | Iron (II) sulfate is sold as ferrous sulfate, a soil amendment for lowering the pH of a high alkaline soil so that plants can access the soil's nutrients. |

Specification

| Property | Units | Value |
|---------------------|-------------------|------------------------|
| Appearance | - | Blue or Green Crystals |
| Purity | % | 99.0 |
| Density at 20°C | g/cm ³ | 1.89 |
| Melting point | °C | 64 |
| Boiling point | °C | 330 |
| Solubility in Water | - | 25.6 g/100mL (20 °C) |
| Storage condition | °C | 2-8 |

Packaging

- 25kg/drum