

### Ferrous Sulfate Heptahydrate Reagent Grade ACS

**Synonym:** Iron (II) Sulfate Heptahydrate; Copperas

#### Typical Parameters:

Molecular Formula	FeSO <sub>4</sub> ·7H <sub>2</sub> O
Molecular Weight	278.05
CAS Number	7782-63-0
Density	1.90 gm/cm <sup>3</sup>
Melting Range	200 °C (decomposition)
Solubility in water	25.6 g/100 ml at 20 °C (anhydrous)

#### Quality Specifications:

Physical State & Appearance	Blue-Green Crystalline Powder
Assay:	99.0- 104.5%
pH of 5% solution	3.0 to 5.0
Water Insoluble Matter	0.01% (max)
Trace Metal Impurities	Limits (Max)
<i>Chloride (Cl)</i>	0.001%
<i>Phosphate (PO<sub>4</sub>)</i>	0.001%
<i>Calcium (Ca)</i>	0.005%
<i>Copper (Cu)</i>	0.005%
<i>Ferric Ion (Fe<sup>3+</sup>)</i>	0.10%
<i>Magnesium (Mg)</i>	0.002%
<i>Manganese (Mn)</i>	0.05%
<i>Potassium (K)</i>	0.002%
<i>Sodium (Na)</i>	0.02%
<i>Zinc (Zn)</i>	0.005%



**Availability:** 25 Kg in Fiber Drums

**Freight Classification:** Not Regulated

**Storage** Keep in a tightly closed container. Store in a cool, dry, ventilated area.

<sup>(1)</sup>**Disposal:** Dispose of in accordance with local, state, & federal regulations. For assistance with disposal contact NuGeneration Technologies at 888-99-Nugen or e-mail: [nicg@nugentec.com](mailto:nicg@nugentec.com).