

### PRODUCT IDENTIFICATION



**Product Name:** Ferric Chloride 30%

**CAS Number:** 7705-08-0

**Molecular Formula:**  $\text{Cl}_3\text{Fe}$

**Molecular Weight:** 162.20 g/mol

**Grade:** Technical

**Purity / Concentration:** 30%

**Synonyms:** Not Available

### PRODUCT OVERVIEW

Ferric Chloride 30% is a high-performance technical grade solution designed for industrial applications requiring consistent chemical reactivity. This dark brown liquid is widely utilized for its effective coagulation and etching properties in various processing environments.

**Grade Significance:** Technical grade indicates that this product is formulated for industrial efficiency and cost-effectiveness, meeting the performance requirements for most standard processing applications.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

*Certificate of Analysis data not available for this product.*

### PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Dark brown liquid	<b>Form</b>	Liquid
<b>Boiling Point</b>	280°C (pure)	<b>Melting / Freezing Point</b>	37°C (pure)
<b>Specific Gravity</b>	1.31	<b>Solubility</b>	Highly soluble in water
<b>Molecular Formula</b>	$\text{Cl}_3\text{Fe}$	<b>Molecular Weight</b>	162.20 g/mol

### APPLICATIONS

- Water Treatment** — It acts as a primary coagulant to effectively remove suspended solids and impurities from municipal and industrial wastewater streams.
- Electronics Manufacturing** — The solution is frequently used as an etchant for printed circuit boards, providing precise copper removal during the fabrication process.
- Industrial Metal Finishing** — It serves as a reliable pickling agent for steel surfaces, helping to remove oxides and prepare metal for subsequent coatings or treatments.
- Chemical Synthesis** — Ferric Chloride functions as a versatile Lewis acid catalyst in various organic synthesis reactions within laboratory and industrial settings.

### STORAGE & HANDLING

Proper storage is critical because Ferric Chloride is highly corrosive and can cause severe skin burns and eye damage. It must be kept in compatible, corrosion-resistant containers to prevent structural failure of storage vessels and ensure operator safety.

## AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

## SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



### Hazard Statements:

- H302 (96.6%): Harmful if swallowed [Warning Acute toxicity, oral]
- H314 (75.4%): Causes severe skin burns and eye damage [Danger Skin corrosion/irritation]
- H315 (24.4%): Causes skin irritation [Warning Skin corrosion/irritation]
- H318 (24.5%): Causes serious eye damage [Danger Serious eye damage/eye irritation]
- H412 (72.4%): Harmful to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]

**Emergency Contact:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

*For complete safety information, refer to the Safety Data Sheet (SDS) for this product.*

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