

## PRODUCT IDENTIFICATION

**Product Name:** Ferric Chloride 10% Water Treatment Grade**CAS Number:** 7705-08-0**Molecular Formula:**  $\text{Cl}_3\text{Fe}$ **Molecular Weight:** 162.20 g/mol**Grade:** Technical Grade**Purity / Concentration:** 10%**Synonyms:** Not Available

## PRODUCT OVERVIEW

Ferric Chloride 10% is a reliable water treatment grade solution formulated for effective coagulation and flocculation in aqueous systems. This technical grade liquid, with a specific gravity of 1.092, is widely utilized for industrial water processing and laboratory applications requiring consistent chemical performance.

**Grade Significance:** Technical Grade indicates that this product is manufactured for industrial and commercial utility where high-volume performance is required, though it is not intended for pharmaceutical or food-grade applications.

## CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

## PHYSICAL &amp; CHEMICAL PROPERTIES

|                          |                        |                                 |                         |
|--------------------------|------------------------|---------------------------------|-------------------------|
| <b>Appearance</b>        | Yellow-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>  | 1.092                  | <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

- Municipal Water Treatment** — Used as a primary coagulant to remove suspended solids and impurities from raw water supplies.
- Wastewater Management** — Assists in the precipitation of phosphates and the reduction of sludge volume during the treatment process.
- Metal Etching** — Acts as an effective etchant for printed circuit boards and various metal finishing applications.
- Laboratory Research** — Serves as a reagent in chemical synthesis and analytical procedures requiring a consistent iron source.
- Industrial Processing** — Utilized in various manufacturing settings for odor control and as a chemical conditioning agent.

## STORAGE &amp; HANDLING

Proper storage is critical because Ferric Chloride 10% is corrosive to many metals, necessitating the use of compatible, non-reactive containers like high-density polyethylene. Because it is harmful if swallowed and causes severe skin burns, secondary containment and clear labeling are essential to prevent accidental exposure and environmental contamination.

## 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:

- H290: May be corrosive to metals
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H315: Causes skin irritation
- H318: Causes serious eye damage
- H412: Harmful to aquatic life with long lasting effects

**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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