

PRODUCT IDENTIFICATION

**Product Name:** Ferric Chloride 10%**CAS Number:** 7705-08-0**Molecular Formula:** Cl_3Fe **Molecular Weight:** 162.20 g/mol**Grade:** Technical**Purity / Concentration:** 10%**Synonyms:** Not Available

PRODUCT OVERVIEW

Ferric Chloride 10% is a yellow-brown liquid solution supplied in Technical grade for consistent performance in industrial and laboratory settings. With a specific gravity of 1.092, this chemical is formulated for reliable reactivity in various treatment and synthesis applications.

Grade Significance: Technical grade indicates that the product is manufactured to meet standard industrial specifications rather than pharmaceutical or food-grade purity, making it an economical choice for general manufacturing and laboratory processes.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Yellow-brown liquid	Form	Liquid
Boiling Point	280°C (pure)	Melting / Freezing Point	37°C (pure)
Specific Gravity	1.092	Solubility	Highly soluble in water
Molecular Formula	Cl_3Fe	Molecular Weight	162.20 g/mol

APPLICATIONS

- Water Treatment** — Utilized as a primary coagulant to remove suspended solids and impurities from wastewater streams.
- Electronics Manufacturing** — Acts as an effective etchant for printed circuit boards, allowing for precise removal of copper layers.
- Chemical Synthesis** — Functions as a Lewis acid catalyst in various organic synthesis processes to facilitate chemical reactions.
- Laboratory Research** — Used as a reagent for analytical testing and colorimetric analysis of organic compounds.
- Metal Surface Treatment** — Applied in pickling processes to remove scale and oxides from metal surfaces before finishing.

STORAGE & HANDLING

Proper storage is critical because Ferric Chloride is classified as corrosive, posing significant risks for skin burns and eye damage. Containers must be kept tightly sealed in a cool, well-ventilated area to prevent degradation and avoid accidental contact or chemical reactions with incompatible materials.

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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.