

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.

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