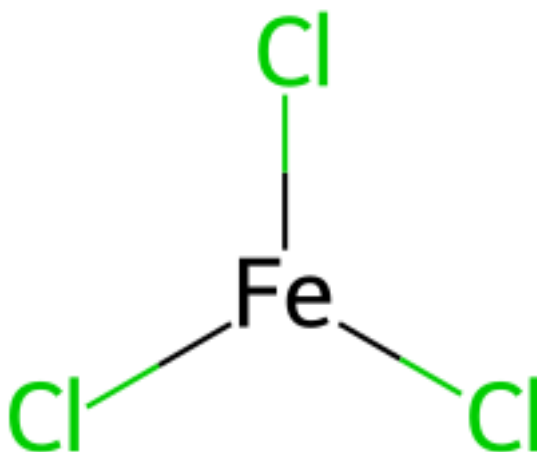


TRICHLOROIRON

Formula	Cl ₃ Fe
Mol. wt.	160.8415 g/mol
InChIKey	RBARNINKXHZNM-UHFFFAOYSA-K

1. MOLECULAR STRUCTURE 2D



2. HAZARD IDENTIFICATION (GHS)

Signal word: **DANGER**

Hazard pictograms:



Corrosive

Hazard statements (H)

- H402: Harmful to aquatic life [Hazardous to the aquatic environment, acute hazard]

Precautionary statements (P)

- P260, P264, P270, P280, P301+P317, P301+P330+P331, P302+P361+P354, P304+P340, P305+P354+P338, P316, P321, P330, P363, P405, and P501 (click each P-code to see the statement)

3. NFPA 704 SYSTEM

NFPA 704 data not available.

4. ACUTE TOXICITY

LD50 data not available.

5. RELEVANT PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Unit	Source
Boiling point	599 °F at 760 mmHg (Decomposes) (NTP, 1992)	—	pubchem_pugview

Density	2.8 at 68 °F (anhydrous solid) (USCG, 1999) - Denser than water; will sink	—	pubchem_pugview
Melting point	583 °F (NTP, 1992)	—	pubchem_pugview
Vapor pressure	1 mmHg at 381 °F (NTP, 1992)	—	pubchem_pugview
Water solubility	5 to 10 mg/mL at 68 °F (NTP, 1992)	—	pubchem_pugview

IMPORTANT LEGAL DISCLAIMER

This document is an INFORMATIONAL SAFETY PROPERTIES SUMMARY automatically generated from PubChem data (National Institutes of Health, USA). It is NOT an official Safety Data Sheet (SDS) and does not comply with GHS, OSHA HazCom, REACH (EU), or any equivalent national regulation. It must NOT be used as the sole reference document in industrial settings, professional laboratories, or for occupational risk assessment. Always consult the official SDS from the compound supplier and applicable local regulations before handling.

Official SDS sources:

- Sigma-Aldrich (Merck): <https://www.sigmaaldrich.com/search#q=trichloroiron>
- Fisher Scientific: <https://www.fishersci.com/us/en/catalog/search/sds?query=trichloroiron>
- PubChem (source data): <https://pubchem.ncbi.nlm.nih.gov/#query=trichloroiron>
- GESTIS (database): <https://gestis-database.dguv.de/>

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