Iron(III) chloride

Product Number  F7134
Store at Room Temperature

Product Description
Molecular Formula:  FeCl₃
Molecular Weight:  162.2
CAS Number:  7705-08-0
Synonyms:  ferric chloride, flores martis¹

Ferric chloride occurs in nature as the mineral molysite. It is used in photoengraving, photography, the manufacture of pigments and ink, the chlorination of silver and copper ores, and as a mordant in dyeing and printing textiles.¹ Ferric chloride is also utilized in the synthesis of organic compounds.²,³ A procedure has been published on the use of FeCl₃ to protect Nafion’s membranes from calcification.⁴

FeCl₃ is used in the Mayer’s tannic acid/ferric chloride method for staining tissue with observation by light microscopy.⁵,⁶ Studies of iron uptake and of apoptosis in cultured cells have utilized FeCl₃ as an iron source.⁷,⁸,⁹,¹⁰

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is tested for solubility in water or in 1 M HCl (100 mg/ml), yielding a turbid, yellow/brown/orange solution.

Storage/Stability
This product is light and moisture sensitive. It is advised to keep containers well closed and protected from light.

References
1. The Merck Index, 12th ed., Entry# 4061.

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