

Certificate of Analysis

Product Name : Iron(III) chloride hexahydrate reagent grade, ≥98%, chunks
Product Number : F2877-100G
Batch Number : 0000425475
Source Batch : MKCV4607
CAS Number : 10025-77-1
MDL Number : MFCD00149712
Storage Temperature : Cooler/Refrigerated
Molecular Formula : $\text{Cl}_3\text{Fe} \cdot 6\text{H}_2\text{O}$
Formula Weight : 270.30 g/mol
Recommended Retest Date : Dec 2026
Quality Release Date : 27 DEC 2023

Test	Specification	Result
Appearance (Color)	Faint Yellow to Very Dark Yellow and Yellow-Brown	Very Dark Yellow
Appearance (Form) Lumps	Conforms	Conforms
ICP Major Analysis Confirms Fe Component	Confirmed	Confirmed
Solubility (Turbidity) c = 10g/50ml; H ₂ O:HCL (49:1)	Clear to Hazy	Clear
Solubility (Color)	Faint Yellow to Dark Yellow and Faint Orange to Dark Orange and Yellow-Orange	Dark Yellow
Titration with Na ₂ S ₂ O ₃	98.0 - 102.0 %	101.3 %



Larry Coers, Director
Quality Control
Milwaukee, WI
US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale.

Version Number: 01 Doc 1206873

Page 1 of 1

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com

