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## Product Specification

Product Name:  
Iron(III) chloride hexahydrate – ACS reagent, 97%

<b>Product Number:</b>	<b>236489</b>	$\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$
CAS Number:	10025-77-1	
MDL:	MFCD00149712	
Formula:	$\text{Cl}_3\text{Fe} \cdot 6\text{H}_2\text{O}$	
Formula Weight:	270.30 g/mol	

TEST	Specification
Appearance (Color)	Conforms to Requirements
Yellow to Yellow-Orange/Brown	
Appearance (Form)	Chunk(s)
Chunks	
X-Ray Diffraction	Conforms to Structure
Titration by $\text{Na}_2\text{S}_2\text{O}_3$	97.0 - 102.0 %
Insoluble matter	≤ 0.01 %
Nitrate ( $\text{NO}_3$ )	≤ 0.01 %
Sulfate	≤ 0.01 %
Phosphorus Compounds	≤ 0.01 %
Calcium (Ca)	≤ 0.01 %
Copper (Cu)	≤ 0.003 %
Magnesium (Mg)	≤ 0.005 %
Potassium (K)	≤ 0.005 %
Sodium (Na)	≤ 0.05 %
Zinc (Zn)	≤ 0.003 %
Ferrous Iron ( $\text{Fe}^{+2}$ )	≤ 0.002 %
Recommended Retest Period	-----
3 Years	
Meets ACS Requirements	Current ACS Specification

Specification: PRD.3.ZQ5.10000027520

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](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.