

Certificate of Analysis

Product Name: Iron(III) Chloride Hexahydrate

Product Information

- Product Number: FeCl₃-CAS7705080-202702
- Batch Number: FeCl₃-2026012001
- Brand: SIGALD
- CAS Number: 7705-08-0
- MDL Number: MFCD00149712
- Formula: FeCl₃·6H₂O
- Formula Weight: 270.30 g/mol
- Quality Release Date: 20 JAN 2026

Test Item	Specification (Industrial Standard)	Result	Test Method
Appearance	Dark brown crystalline solid	Dark brown crystalline solid	Visual Inspection
Assay (as FeCl ₃ ·6H ₂ O)	≥ 98.0%	98.6%	Complexometric Titration (EDTA Method)
Total Iron (as Fe)	≥ 20.0%	20.5%	Redox Titration
pH Value (1% Aqueous Solution, 25°C)	1.0-2.5	1.8	Digital pH Meter
Insoluble Matter in Water	≤ 0.1%	0.03%	Gravimetric Method
Heavy Metals (Pb)	≤ 0.0005%	0.0001%	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 0.0001%	0.00004%	Atomic Fluorescence Spectrometry (AFS)
Mercury (Hg)	≤ 0.00001%	0.000002%	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤ 0.00005%	0.00002%	Atomic Absorption Spectrometry (AAS)
Chloride (as Cl ⁻)	45.0-47.0%	46.2%	Silver Nitrate Titration
Particle Size	80-200 mesh (passing rate ≥ 95%)	96%	Sieve Analysis
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product has been tested in accordance with industrial standards for Iron(III) Chloride and meets all specified requirements. It is qualified for use.

Issue Date: 20 JAN 2026