

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	Chromium(iii) Chloride Hexahydrate
C.A.S. Number	10060-12-5
Molecular Formula	H ₁₂ Cl ₃ CrO ₆
Molecular Weight	266.45
Grade / Standard	≥98% Technical
Physical Form	Dark green crystalline solid
Product Category	Inorganic Salts & Compounds
Country of Origin	India

Structural Formula
$\begin{array}{c} \text{Cl}^- \\ \text{Cl}^- \\ \text{H}_2\text{O} \\ \text{H}_2\text{O} \\ \text{H}_2\text{CH}_2\text{CH}_2\text{O} \quad \text{O}^2\text{Cl}^- \quad \text{Cr}^{3+} \end{array}$

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Dark green crystalline solid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Solubility	As per specification	Complies	Visual / Monograph
4	Assay	Not less than 98.0 % w/w	98.70	Titrimetry / Instrumental
5	Matter Insoluble in Water	Not more than 0.05 % w/w	0.005	Gravimetry
6	pH (5 % w/v aqueous solution)	As per specification	9.2	Potentiometry
7	Chloride (as Cl)	Not more than 0.01 % w/w	0.0028	Turbidimetry / IC
8	Sulphate (as SO ₄)	Not more than 0.02 % w/w	0.0012	Turbidimetry / IC
9	Iron (as Fe)	Not more than 20 ppm	5.0 ppm	ICP-OES / AAS
10	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
11	Moisture	Not more than 1.0 % w/w	0.23	Karl Fischer / Gravimetry
12	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks Material supplied against this specification is analysed on every production lot and conforms to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade. Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.	Checked and Approved by Prem Panchal Quality Assurance Scapex Exports Pvt. Ltd.
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This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.