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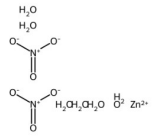
CIN U46909GJ2025PTC164345

CERTIFICATE OF ANALYSIS Standard product specification

Zinc Nitrate Hexahydrate

CAS 10196-18-6 · H12N2O12Zn · ≥98% Technical



STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	Zinc Nitrate Hexahydrate
C.A.S. number	10196-18-6
Molecular formula	H12N2O12Zn
Molecular weight	297.49 g/mol
Grade / standard	≥98% Technical
Description	White crystalline solid
Product group	Phosphating Chemicals
Category	Metal Treatment & Electroplating Chemicals
Country of origin	India
Packing	Bags, drums, carboys, IBC or ISO tank as applicable — customer-specified packing available
Storage	Cool, dry, well-ventilated place in tightly closed original packing

2. ANALYTICAL SPECIFICATION

S. NO.	TEST PARAMETER	SPECIFICATION	TYPICAL RESULT	METHOD
1	Description	White 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	98.59	Titrimetry / Instrumental
5	Matter Insoluble in Water	Not more than 0.05 % w/w	0.007	Gravimetry

6	pH (5 % w/v aqueous solution)	As per specification	6.6	Potentiometry
7	Chloride (as Cl)	Not more than 0.01 % w/w	0.0034	Turbidimetry / IC
8	Sulphate (as SO4)	Not more than 0.02 % w/w	0.0067	Turbidimetry / IC
9	Iron (as Fe)	Not more than 20 ppm	6.4 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	0.30	Karl Fischer / Gravimetry

3. DECLARATION

This document sets out the standard specification for Zinc Nitrate Hexahydrate and applies to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with, and travels with, each consignment. Scapex Exports supplies against customer-specified assay limits and pharmacopoeial standards — send your specification sheet and we confirm compliance in writing before the order is accepted.

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