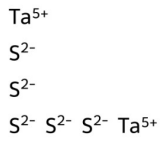
Scapex Exports Pvt. Ltd.
830, 8th Floor, Sun Gravitas, Times of India Road,
Shyamal, Ahmedabad 380015, Gujarat, India
+91 9925522674 · info@scapexexports.com
CIN U46909GJ2025PTC164345

CERTIFICATE OF ANALYSIS Standard product specification

Tantalum sulfide

CAS 12143-72-5 · S5Ta2 · 99.8% (metals basis)



STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	Tantalum sulfide
C.A.S. number	12143-72-5
Molecular formula	S5Ta2
Molecular weight	522.23 g/mol
Grade / standard	99.8% (metals basis)
Description	Crystalline powder
Product group	Metal Salts & Alkoxides
Category	Inorganic Salts & Compounds
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	Crystalline powder	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 99.8 % w/w	99.89	Titrimetry / Instrumental
5	Matter Insoluble in Water	Not more than 0.05 % w/w	0.017	Gravimetry

6	pH (5 % w/v aqueous solution)	As per specification	6.5	Potentiometry
7	Chloride (as Cl)	Not more than 0.01 % w/w	0.0024	Turbidimetry / IC
8	Sulphate (as SO4)	Not more than 0.02 % w/w	0.0016	Turbidimetry / IC
9	Iron (as Fe)	Not more than 20 ppm	4.8 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	0.24	Karl Fischer / Gravimetry

3. DECLARATION

This document sets out the standard specification for Tantalum sulfide 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.

SCAPEX EXPORTS PVT. LTD.
SCAPEX
QUALITY ASSURED
AHMEDABAD · GUJARAT · INDIA

Scapex Exports Pvt. Ltd. · Ahmedabad, Gujarat, India · info@scapexexports.com · +91 9925522674 — system-generated document, valid without physical signature.