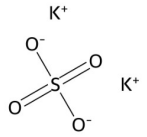
Scapex Exports Pvt. Ltd.
830, 8th Floor, Sun Gravitas, Times of India Road,
Shyamal, Ahmedabad 380015, Gujarat, India
+91 9925522674 · info@scapexexports.com
CIN U46909GJ2025PTC164345

CERTIFICATE OF ANALYSIS Standard product specification

Potassium Sulfate (AR)

CAS 7778-80-5 · K2O4S · ≥99% AR



STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	Potassium Sulfate (AR)
C.A.S. number	7778-80-5
Molecular formula	K2O4S
Molecular weight	174.26 g/mol
Grade / standard	≥99% AR
Description	White crystalline powder
Product group	Laboratory Salts & Reagents (AR)
Category	Laboratory & Analytical Reagents
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 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 99.0 % w/w	99.26	Titrimetry / Instrumental

5	Matter Insoluble in Water	Not more than 0.01 % w/w	0.0030	Gravimetry
6	pH (5 % aqueous solution)	As per specification	4.6	Potentiometry
7	Chloride (Cl)	Not more than 0.001 %	0.00026	Turbidimetry
8	Sulphate (SO4)	Not more than 0.002 %	0.00067	Turbidimetry
9	Iron (Fe)	Not more than 5 ppm	1.45 ppm	ICP-OES
10	Heavy Metals (as Pb)	Not more than 5 ppm	Less than 2 ppm	ICP-OES
11	Moisture	Not more than 1.0 % w/w	0.15	Karl Fischer / Gravimetry

3. DECLARATION

This document sets out the standard specification for Potassium Sulfate (AR) 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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