



BUREAU OF RESEARCH, TESTING AND CONSULTATION (BRTC)

Department of Chemistry

Chittagong University of Engineering and Technology (CUET)
Chattogram-4349, Bangladesh

TEST REPORT

Test Report No. : CUET/CHEM/2026/071D

Sample Tag No. : 748720

Name of Section : Section-8(D)

B/E No. & Date : C-706091, Date: 19/04/2026



Date of Report Delivery: 23/04/2026

Sample Received on : 22/04/2026

Sample: 01 Bag (Without Sealed Condition)

Declared Commodity Name as per Invoice/MSDS: **SODIUM SULPHATE ANHYDROUS**

Ref. file No. & Date: ০৫/কা:চট্ট:/সেকশন-৮(ডি)/৮৬৭/শুকায়ন/২০২৬/২৯০১৬(কাস), তারিখ: ২২/০৪/২০২৬ খ্রিঃ

TEST RESULTS

SN	Parameters	Descriptions	
1	Method of test/analysis:	Physical, chemical and spectroscopic.	
2	Physical properties	Physical state : Crystalline solid Colour : White Odour : Odourless Solubility : Soluble in water	Melting point : >350°C Specific gravity : > 1
3	Chemical and spectroscopic analysis	Sodium ion (Na ⁺) test : Positive (+ve) Sulphate ion (SO ₄ ²⁻) test : Positive (+ve) Chloride ion (Cl ⁻) test : Trace amount Hydrate test : Negative (-ve)	
4	Chemical name	Chemical name of the sample is Sodium Sulphate Anhydrous (Na₂SO₄) .	
5	Probable uses of the product	<i>It is used in various industries like glass, pulp and paper, leather, soap, textile, detergent, battery, ceramic and chemical manufacturing.</i>	
6	Note (if any)	Disodium sulphate, Sodium sulfate and Sodium sulphate anhydrous are the same products having molecular formula Na₂SO₄ . Glauber's salt, also known as Mirabilite is a hydrous sodium sulphate having molecular formula Na₂SO₄·10H₂O .	

Responses to queries:

1. The supplied sample is **Sodium Sulphate Anhydrous**.
2. The sample is neither Glauber salt nor Table salt (Salt Sodium Chloride, NaCl).
3. N/A

Test conducted by

Rajia Sultana
23/4/26

Dr. Rajia Sultana
Professor
Department of Chemistry
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Checked by

Dr. A. H. Rashadul Hossain
23.04.2026

Dr. A. H. Rashadul Hossain
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Countersigned by

Prof. Dr. Mst. Roksanakhatun
23.04.26

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Note: Any complain about sample / test report will not be acceptable after one month from the date of report delivery.