



# 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/2026/071C

Sample Tag No. : 748402

Name of Section : Section-8(D)

B/E No. & Date : C-692043, Date: 16/04/2026



Date of Report Delivery: 23/04/2026

Sample Received on : 22/04/2026

Sample: 01 Bag (Sealed Condition)

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

Ref. file No. & Date: ০৫/কা:হা:চট্ট:/সেকশন-৮(ডি)/৮৬১/শুক্রায়ন/২০২৬/২৯০৪৮(কাস), তারিখ: ২২/০৪/২০২৬খ্রিঃ

### TEST RESULTS

| SN | Parameters                          | Descriptions   |
|----|-------------------------------------|--|
| 1  | Method of test/analysis:            | Physical, chemical and spectroscopic.  |
| 2  | Physical properties                 | Physical state : <b>Crystalline solid</b><br>Colour : <b>White</b><br>Odour : <b>Odourless</b><br>Solubility : <b>Soluble in water</b><br>Melting point : <b>&gt;350°C</b><br>Specific gravity : <b>&gt; 1</b>                                 |
| 3  | Chemical and spectroscopic analysis | Sodium ion (Na <sup>+</sup> ) test : <b>Positive (+ve)</b><br>Sulphate ion (SO <sub>4</sub> <sup>2-</sup> ) test : <b>Positive (+ve)</b><br>Chloride ion (Cl <sup>-</sup> ) test : <b>Trace amount</b><br>Hydrate test : <b>Negative (-ve)</b> |
| 4  | Chemical name                       | Chemical name of the sample is <b>Sodium Sulphate Anhydrous (Na<sub>2</sub>SO<sub>4</sub>)</b> .   |
| 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 <b>Sodium sulphateanhydrous</b> are the same products having molecular formula <b>Na<sub>2</sub>SO<sub>4</sub></b> .   |

#### Responses to quarries:

1. The supplied sample is **Sodium Sulphate Anhydrous**.
2. The sample is not Table salt (Sodium Chloride).
3. Comment: N/A

Test conducted by

*R. Sultana*  
23/4/26

**Dr. Rajia Sultana**  
Professor  
Department of Chemistry  
Chittagong University of Engineering & Technology  
Chattogram-4349, Bangladesh.

Checked by

*HA*  
23.04.2026

**Dr. A. H. Rashadul Hossain**  
Professor  
Department of Chemistry  
Chittagong University of Engineering & Technology  
Chattogram-4349, Bangladesh.

Countersigned by

*R. Khatun*  
23.04.26

**Prof. Dr. Mst. Roksan Khatun**  
Chairman, BRTC Chemistry &  
Head, Department of Chemistry, CUET  
Chattogram-4349, Bangladesh  
Mobile: +88 01782 618134

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