



# BUREAU OF RESEARCH, TESTING AND CONSULTATION (BRTC)

## Department of Chemistry

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

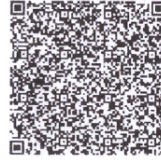
### TEST REPORT

Test Report No. : CUET/CHEM/2026/069C

Sample Tag No. : 728170

Name of Section : Section-8(D)

B/E No. & Date : C-684806, Date: 15/04/2026



Date of Report Delivery: 21/04/2026

Sample Received on : 20/04/2026

Sample: 01 Bag (Without Sealed Condition)

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

Ref. file No. & Date: ০৫/কা:হা:চট্ট:/সেকশন-৮(ডি)/৮৪৫/স্কায়ন/২০২৬/২৮০৩৫ (কাস);

তারিখ: ২০/০৪/২০২৬ খ্রিঃ

### 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 sulphate anhydrous</b> are the same products having molecular formula <b>Na<sub>2</sub>SO<sub>4</sub></b> .<br>Glauber's salt, also known as Mirabilite is a <b>hydrous</b> sodium sulphate having molecular formula <b>Na<sub>2</sub>SO<sub>4</sub>.10H<sub>2</sub>O</b> . |

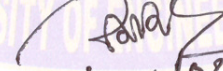
#### Responses to queries:

1. The supplied sample is **Sodium Sulphate Anhydrous**.
2. It is neither Glauber salt nor table salt [Sodium Chloride (NaCl)].
3. Comments: N/A

Test conducted by

  
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Checked by

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