



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/2024/270A

Sample tag no. : 610434

Name of section : Section -8(C)

B/E no. & date : C-989575 Date: 26/05/2024



Date of report delivery : 02/06/2024

Sample received on : 30/05/2024

Sample: 01 Bag (Sealed condition)

Declared commodity name as per invoice/MSDS: **DISODIUM SULPHATE (ANHYDROUS 99 PCT)**

Ref. file no. & date: ০৫/কা:হা:চট্ট/সেকশন-৮(সি)/চুয়েট/২০২৪/৪৭২৪৭ (কাস) তারিখ: ২৮/০৫/২০২৪ খ্রিঃ

TEST RESULTS

SN	Parameters	Descriptions
1	Method of test/analysis:	Physical, chemical and spectroscopic.
2	Physical properties	Colour : White Odour : Odourless Solubility : Soluble in water Melting point : > 350°C Physical state : Crystalline solid 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: Negative (-ve) 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 sample is sodium sulphate anhydrous.
2. It is neither Glauber salt nor sodium chloride (NaCl).
3. Comments: N/A.

Test conducted by

A. 2.6.24

Dr. Arup Kumer Roy
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Checked by

[Signature]
02.06.24

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Countersigned 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.