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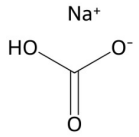
CIN U46909GJ2025PTC164345

CERTIFICATE OF ANALYSIS Standard product specification

Sodium Bicarbonate Food Grade

CAS 144-55-8 · CHNaO3 · ≥99% food grade



STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	Sodium Bicarbonate Food Grade
C.A.S. number	144-55-8
Molecular formula	CHNaO3
Molecular weight	84.01 g/mol
Grade / standard	≥99% food grade
Description	White crystalline powder
Product group	Leavening & Misc
Category	Food Ingredients & Additives
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	99.25	Titrimetry / Instrumental
5	Loss on Drying	Not more than 1.0 % w/w	0.34	Gravimetry (FCC)

6	Lead (Pb)	Not more than 2.0 ppm	Less than 0.5 ppm	ICP-MS / AOAC
7	Arsenic (As)	Not more than 1.0 ppm	Less than 0.2 ppm	ICP-MS / AOAC
8	Mercury (Hg)	Not more than 0.1 ppm	Less than 0.02 ppm	ICP-MS / AOAC
9	Cadmium (Cd)	Not more than 0.5 ppm	Less than 0.05 ppm	ICP-MS / AOAC
10	Sulphated Ash	Not more than 0.5 % w/w	0.115	Gravimetry (FCC)
11	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
12	Total Aerobic Microbial Count	Not more than 1000 cfu/g	46 cfu/g	IP / USP <61>
13	Total Yeast & Mould Count	Not more than 100 cfu/g	12 cfu/g	IP / USP <61>
14	Escherichia coli	Absent in 1 g	Absent	IP / USP <62>
15	Salmonella species	Absent in 10 g	Absent	IP / USP <62>

3. DECLARATION

This document sets out the standard specification for Sodium Bicarbonate Food Grade 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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