

Sodium Bicarbonate

Alkalizer / effervescent agent

Product Description

Pharmaceutical-grade Sodium Bicarbonate is used as an alkalizer and effervescent agent in tablet formulations. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2836.30

CAS Number: 144-55-8

Classification: Pharmaceutical Excipient — A

Parameter	Specification	Test Method
Appearance	White crystalline powder	Visual
Assay	99.0–100.5%	Titration
Identification	Positive reactions for sodium and bicarbonate	Chemical reactions
pH (5% aqueous)	8.0–8.6	USP <791>
Loss on Drying (at 105°C)	"d 0 . 2 5 %	USP <731>
Arsenic	"d 3 p p m	USP <211>
Heavy Metals	"d 5 p p m	USP <231>
Chloride	"d 1 5 0 p p m	Argentometric

Physical Properties

Appearance: White crystalline powder

Molecular Formula: NaHCO_3

Molecular Weight: 84.01 g/mol

Solubility: Freely soluble in water; practically insoluble in ethanol

Melting Point: Decomposes at 50°C to Na_2CO_3

Packing: 25 kg HDPE bags with polyethylene inner liner; 50 kg bags available

Storage: Store in a cool, dry, well-ventilated area. Avoid high temperatures

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Mild irritant
- Releases CO_2 on heating or contact with acids