

SPECIFICATION

Product Name: Sodium Bicarbonate USP Grade
Chemical Formula: NaHCO ₃
CAS Number: 144-55-8
Molecular Weight: 84.01 g/mol
Appearance: White or almost white crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specifications Min./Max.
Identification:			
A. Reaction of Sodium	-	Complies	Must Comply
B. Reaction of Bicarbonate	-	Complies	Must Comply
Chloride	%	Complies	NMT 0.015%
Sulfur Compound	%	Complies	NMT 0.015%
Carbonate	-	Complies	Solution does not assume note more than a faint pink color immediately
Arsenic	PPM	Complies	NMT 2 PPM
Ammonia	PPM	Complies	NMT 20 PPM
Loss on Drying (over silica gel for 4hrs)	%	0.15%	NMT 0.25%
Assay (on dry basis)	%	99.97%	99.00% to 100.50% of NaHCO ₃

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in methanol. Insoluble in acetone. Insoluble in ether. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, moisture-resistant container in a cool, dry, and well-ventilated place, protected from moisture, heat, direct sunlight, and contamination.

Applications

- Use: Widely used as an antacid, buffering agent, alkalizing agent, and effervescent agent in pharmaceutical, nutraceutical, food, and laboratory applications.
- Dosage: Depends on Patient's age, Medical condition, Severity of symptoms, Acid-base balance, Kidney function, Healthcare professional's recommendation.

Packaging

- Standard Packing: 50 kgs pp bag with inner liner and 100 Grams or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.