

SPECIFICATION

Product Name: Sodium Bicarbonate BP Grade
Chemical Formula: NaHCO ₃
CAS Number: 144-55-8
Molecular Weight: 84.007 g/mol
Appearance: Almost white crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification	-	Complies	A. When gas is evolved pale pink color became red. B. It gives reaction of carbonate & Bicarbonates. C. It gives reaction of sodium.
Carbonates (pH of 5% w/v solution)	-	8.24	NMT 8.60
Chlorides	PPM	Complies	NMT 150 PPM
Sulfates	PPM	Complies	NMT 150 PPM
Ammonium	PPM	Complies	NMT 20 PPM
Arsenic	PPM	Complies	NMT 2 PPM
Calcium	PPM	Complies	NMT 100 PPM
Iron	PPM	Complies	NMT 20 PPM
Assay	%	100.16%	99.0% to 101.0% of NaHCO ₃

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in acetone. Soluble in glycerol.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place. Keep the container tightly closed to protect from moisture. Store away from acids, excessive heat, and humidity. Keep in the original, properly labeled container.

Applications

- Use: Widely used as a pharmaceutical buffering agent, antacid, and alkalizing agent. It helps neutralize excess stomach acid, maintain pH in pharmaceutical formulations, and is used as an excipient in tablets and effervescent preparations. It is also used in food, laboratory, and industrial applications.
- Dosage: Depends on its intended pharmaceutical use and formulation. It should be used according to the product formulation requirements or as directed by a qualified healthcare professional. The appropriate dose varies based on the indication, patient age, and clinical condition.

Packaging

- Standard Packing: 50 Kgs pp bag with inner liner 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.