

SPECIFICATION

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

Chemical Composition

Parameter	Unit	Typical Value	Specifications Min./Max.
pH (1% Solution)	%	8.33%	Max. 8.4%
Total Alkalinity (as NaHCO ₃)	%	99.96%	Min. 99.60%
Chloride	%	0.0036%	Max. 0.06 %
Matter Insoluble in water	%	Traces	Max. 0.05%
Sulphate	%	Traces	Max. 0.05%
Iron	%	Passes	Max. 0.004 %
Lead	PPM	Passes	Max. 2.5 PPM
Arsenic	PPM	Passes	Max. 1.1 PPM
Copper	PPM	Passes	Max. 30 PPM
Mercury as Hg	PPM	Passes	Max. 1.0 PPM

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 in food-grade leavening agent, acidity regulator, buffering agent, and pH control agent widely used in the food, beverage, nutraceutical, and food processing industries.
- Dosage: Depends on Desired leavening effect, Target pH, Product formulation, Processing conditions, Regulatory requirements, Sensory characteristics.

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.