

SPECIFICATION

Product Name: Sodium Carbonate Anhydrous
Chemical Formula: Na_2CO_3
CAS Number: 497-19-8
Molecular Weight: 105.99 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification			
(A) By colour	-	Complies	10 % solution is strongly alkaline.
(B) Reaction Of carbonates	-	Complies	It gives reaction of Carbonate
(C) Reaction of Sodium	-	Complies	It gives reaction of Sodium.
(D) LOD	-	Complies	It complies with limit test of Loss on drying
Appearance of solution (20 % w/v solution)	-	Complies	Solution is clear and not more intensely colored than reference color solution Y6
Alkali hydroxides and bicarbonate	-	Complies	The solution does not become red and after 2-minute boil the solution, the solution remains clear.
Assay	%	99.75%	99.0% -100.5%
Loss on Drying at 300 °C	%	0.19%	Max. 1.0%
Heavy metals	PPM	Complies	NMT 50 PPM
Sulphate	PPM	Complies	NMT 250 PPM

Chloride	PPM	Complies	NMT 125 PPM
Iron	PPM	Complies	NMT 50 PPM

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, as the material is hygroscopic. Store away from acids, excessive heat, and humidity in the original, properly labeled container.

Applications

- Use: Widely used as an alkalizing agent, pH adjuster, and buffering agent in pharmaceutical, food, laboratory, and industrial applications. It is also used in detergents, water treatment, glass manufacturing, and as a processing aid in various chemical formulations.
- Dosage: Depends on its intended application and formulation. In pharmaceutical and food formulations, it should be used according to product formulation requirements and applicable regulatory standards or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 25 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.