Sodium Bicarbonate

(Food Grade) Sodium Hydrogen Carbonate

CAS No.: 144-55-8
Formula: $NaHCO_3$

DESCRIPTION

Sodium Bicarbonate, also known as baking soda, is a white crystalline powder composed of sodium cations and bicarbonate anions. It is a versatile, non-toxic, mildly alkaline compound used across food, pharmaceutical, industrial, and environmental applications.

KEY FEATURES

- High purity and consistent quality suitable for food-grade use
- Safe, environmentally benign, and fully water soluble
- Excellent acid-neutralizing and buffering capacity
- Acts as a leavening, pH-regulating, and deodorizing agent
- Stable under dry conditions and easy to handle

APPLICATIONS

- Baking and food processing as a leavening agent
- Fire extinguishing medium in dry chemical systems
- Acid neutralizer and pH regulator in formulations
- Anti-fungal and soil conditioning agent in agriculture
- General industrial and cleaning applications

TYPICAL SPECIFICATIONS

Parameter	Specification
Appearance	White powder
Total Alkali Content (as $NaHCO_3$) (%)	99.0 – 100.5
Loss on Drying (%)	≤ 0.20
Heavy Metals (as Pb) (%)	≤ 0.005
Arsenic (As) (%)	≤ 0.001
pH (10 g/L aqueous solution)	≤ 8.50
Chloride (Cl) Quality Score (%)	≤ 0.40

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LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

Available in 25 kg bags and 1000 kg bulk bags on pallets.

STORAGE

Store in a cool, dry, and well-ventilated area. Keep containers tightly closed to prevent moisture absorption. Avoid contact with acids and heat sources. Shelf life 24 months under recommended storage conditions.

SAFETY & HANDLING

Non-toxic and non-flammable under normal conditions. Avoid inhalation of dust and prolonged skin contact. Refer to the Safety Data Sheet (SDS) for complete safety information.