

**Technical Data Sheet**

## Sodium Bicarbonate

SODIUM BICARBONATE is a white, crystalline powder that is commonly used as a pH buffering agent, an electrolyte replenisher, systemic alkalizer and in topical cleansing solutions.

It is the [monosodium](#) salt of [carbonic acid](#) with alkalinizing and electrolyte replacement properties.

### Applications:

- Food industry: As a leavening and volumizing agent in the production of various cakes, pastries, bread, and biscuits.
- Livestock and poultry feed industries: As a dietary supplement for regulating the pH of the digestive system of livestock and poultry.
- Polymer industries: As a catalyst and purifier during the production process of complex polymers and plastics.
- Drinking water purification industries: As a neutralizing agent for acidic effects present in water.
- Leather tanning industry: To soften and prevent the degradation of animal fibers.
- Fire extinguishing powder production industries: By creating carbon dioxide to extinguish fires.
- Textile industry for dyeing and printing fabrics: To treat woolen, and silk threads, and increase pH.
- Detergent industries: Regulate and stabilize pH and create buffering properties in water.
- Pharmaceutical industries: As a buffering agent, pH balancer, and effervescent tablets.

### TYPICAL CHEMICAL ANALYSIS

ITEMS	Units	Guarantee	Typical/Actual
Total Alkali Content (NaHCO <sub>3</sub> )	% minimum	99	99.8
Sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> )	% maximum	1	1
Heavy Metals(as pb)	% maximum	0.0005	<0.0005
Arsenic(AS)	% maximum	0.0001	<0.0001
Loss on Drying	% maximum	0.25	0.04
Chlorides(as Cl)	% maximum	0.4	<0.2
PH Value(10 g/L Solution)	% maximum	8.6	8.2

### OTHER TYPICAL PROPERTIES

#### TYPICAL PARTICLE SIZES

**Appearance:** White crystal or crystalline powder

**powder:** around 16%:140(mesh)(<0.105 mm ~ 0.074 mm)

**Medium Granule:** around 31%:120(mesh)(<0.122 mm ~ 0.25mm)

**Coarse Granule:** around 53%:60(mesh)(<0.25mm)

### OTHER INFORMATION

**Molecular Formula:**NaHCO<sub>3</sub>

**Molecular Weight:**84.01