

## Sodium Bicarbonate Technical

### Sodium Bicarbonate Technical :

**Chemical formula:** NaHCO<sub>3</sub>

**Structural formula:** 
$$\begin{array}{c} \text{O} \\ | \\ \text{Na} - \text{O} - \text{C} - \text{O} - \text{Na} \\ | \\ \text{O} \end{array}$$

**Common names:** Baking Soda, Sodium hydrogen Carbonate, Sodium acid carbonate

**Specification:** T.C. Specification

**CAS registry number:** 144-55-8

Sodium Bicarbonate is obtained as an intermediate during the production of synthetic Soda Ash using the ammonia-soda process, popularly known as the Solvay process. Calcium carbonate (limestone) on heating releases carbon dioxide, which is passed into an ammoniated salt solution producing a sodium bicarbonate precipitate.

### Physical and chemical properties :

Sodium Bicarbonate Technical Grade is in the form of white to light brown minutely crystalline powder, free from visible contamination and other extraneous impurities. It is liable to lumping if exposed to dampness or subjected to too high a pressure. It begins to decompose slowly at 50°C, releasing carbon dioxide gas.

Characteristics	Units	TCL-assured specifications
Molecular weight		84
Total alkalinity (as NaHCO <sub>3</sub> )	%, min	99.20
pH	max	8.8
Chlorides (as Cl)	%, max	0.06
Matter insoluble in water	%, max	0.10
Sulphates (as SO <sub>4</sub> )	%, max	0.07
Iron (as Fe)	%, max	0.004
Heavy metals (as Pb)	ppm, max	5
Arsenic (as As)	ppm, max	1.5
Copper (as Cu)	ppm, max	30

### Applications: (not for edible or medicinal use) :

Sodium bicarbonate technical grade is used in the manufacture of detergents and other products where edible or medicinal use is not intended. It is also used in gold and platinum plating, tanning industry, treating wool and silk, fire extinguishers and ceramics.

### Packaging :

Available in 50 kg HDPE/PP bags with lamination/liner.

### Storage :

Sodium bicarbonate should be stored in a cool, dry place and far away from any source of heat. The bags should not be stacked more than 15 high. The storing place should be free of objectionable odours, as the product is extremely likely to pick up odours.



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