

## Technical Data

# Sodium Bicarbonate

## USP Fine Granular No. 2

 Meets **United States Pharmacopeia** and **Food Chemicals Codex** Specifications

Not Intended for Active Pharmaceutical Ingredient (API) Use

<b>Formula</b>	NaHCO <sub>3</sub>
----------------	--------------------

<b>Molecular Weight</b>	84.01
-------------------------	-------

**Chemical Abstract Services**

Name	Carbonic Acid Monosodium Salt
Number	144-55-8

**Particle Size Distribution**

Screen Size	Cumulative % Retained	
	Minimum	Maximum
USS 80 (180 μm)	0	1
USS 100 (150 μm)	0	2
USS 200 (75 μm)	70	100
USS 325 (45 μm)	90	100

**General Properties**

Typical bulk density, lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	66 (1058)
Particle density, g/cm <sup>3</sup>	2.22
pH of 1% solution @ 25°C (77°F)	8.3
Appearance	White crystalline powder
Thermal decomposition	Decomposes (without melting) into Na <sub>2</sub> CO <sub>3</sub> , H <sub>2</sub> O, and CO <sub>2</sub>

**Specifications and Requirements**

	USP	FCC
Assay (dry basis)	99.0% - 100.5%	99% minimum
Insoluble substances	Meets USP requirement	Passes FCC test
Loss on drying	0.25% max	0.25% max
Ammonia	Meets USP requirement	Passes FCC test
Arsenic	2 ppm max	3 ppm max (as As)
Heavy metals	No USP requirement	5 ppm max (as Pb)
Carbonate	Meets USP requirement	No FCC requirement
Chloride (as Cl <sup>-</sup> )	150 ppm max	No FCC requirement
Sulfur Compounds	150 ppm max	No FCC requirement
Identification	Responds to USP tests for sodium and bicarbonate	Positive in FCC tests for sodium and bicarbonate

<b>Standard Containers</b>	50 lb (22.7 kg) bags One ton super sacks Bulk hopper cars and trucks
----------------------------	--

The information contained herein is, to our knowledge, true and accurate. Because conditions of use are beyond our control, we make no warranty or representation, expressed or implied, except that the products discussed herein conform to the chemical descriptions shown on their labels. Nothing contained herein should be construed as permission or recommendation to infringe any patent. No agent, representative, or employee of this company is authorized to vary any of the terms of this notice.