

TECHNICAL INFORMATION

Sodium Bicarbonate U.S.P. Grade #5 Coarse Granular

Revision Date: February 2, 2018

Chemical Name: Sodium Bicarbonate Screen Analysis

Country Of Origin: **United States Cumulative Percent Retained**

Origin: Nahcolite U. S. Std. Sieve No. Minimum Maximum Formula: NaHCO₃ +60 0 50 +100 50 100 Molecular Weight: 84.01 CAS Name & Number: Sodium Hydrogen Carbonate/144-55-8 +170 80 100

E Number: **Bulk Density**

White, Crystalline Powder Description: **Poured** Typical Range: 63 - 75 lbs / ft3

Grade: USP Grade # 5 Coarse Granular

Meets The Following Food Grade Specifications

	United States Pharmacopoeia	Food Chemical Codex (FCC)	Other
Assay	99.0% - 100.5%	99.0% - 100.5%	
pH (3% solution)			7.8 - 8.5
Insolubles (Clarity)	Clear Solution	Clear Solution	
Moisture	0.25% Max	0.25% Max	
Ammonia	20 PPM Max	Passes Smell Test	
Arsenic	2 PPM Max		
Heavy Metals			5 PPM Max
Lead		2 PPM Max	
Cadmium			1 PPM Max
Calcium			100 PPM Max
Copper			1 PPM Max
Iron			2 PPM Max
Limit of Sulfur	150 PPM Max		
Chloride	150 PPM Max		
Normal Carbonate	Passes USP Test		
Identification	Responds to Test	Responds to Test	

Theoretical Properties: The following properties are provided for convenience and reference only. These properties are not normally

tested in the commercial product and no representation is made relative to the commercial product.

Thermal Decomposition: Decomposes (without melting) into Na₂CO₃, H₂O, and CO₂

Alkali Equivalent: 1 lb. NaHCO₃ = 0.369 lb. Na₃O Carbon Dioxide Equivalent: 1 lb. NaHCO₂ = 0.524 lb. CO₂

Specific Gravity: 2.16 g / cm³

Specific Heat @ 25 °C: 20.94 cal / deg mol Solubility In Water @ 60 °C: 16.4 g / 100 g H_oO Solubility In Other Solvents: Insoluble in Alcohol Heat Of Formation: - 227.25 K cal / mol

> Heat Of Solution: 3.81 K cal / mol Taste: Slightly alkaline





Packaging:

Multi-wall Paper Bags: 25 kg, 50 lb

Super Sacks: 500 kg, 1000 kg, 2000 lb, 2450 lb

Bulk: Truck & Rail Shelf Life:

2 years from manufacturing date.

Handling:

Information concerning the handling and use of this product is provided in a Safety Data Sheet (SDS). This SDS must be fully read and understood prior to any

exposure, handling, or use of the product. It is the customer's responsibility to adhere to all handling,

storage, and use guidelines.

Applications:

Most commonly used in food, personal care, home care, pharmaceuticals (excipient use only).

The information herein is believed to be reliable. Natural Soda LLC makes no claims or warranty, expressed or implied, as to stability or performance of its sodium bicarbonate when used in combination with other materials or in specific applications or processes.