

TECHNICAL INFORMATION

Most commonly used in food, personal care, home care,.

reprocessing and repackaging. It is not intended for use in

hemodialysis or as an active pharmaceutical ingredient.

This product is intended for further manufacturing,

Sodium Bicarbonate U.S.P. Grade #1 Powder

Revision Date: February 1, 2024

NATURAL SUDA	L				
Chemical Name:	Sodium Bicarbonate	Screen Analysis			
Country Of Origin:	United States	Cumulative Percent Retained			
Origin:	Nahcolite	U. S. Std. Sieve No.	<u>Minimum</u>	<u>Maximum</u>	
Formula:	NaHCO ₃	+100	0	2	
Molecular Weight:	84.01	+200	20	50	
CAS Name & Number:	Sodium Hydrogen Carbonate/144-55-8	+325	60	100	
E Number:	500(ii)		Bulk Density		
Description:	White, Crystalline Powder	Poured	Typical Range:	65 - 75 lbs / ft³	
Grade:	USP Grade # 1 Powder		·) -·····g-·		
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			

			C.O - O.J
Insolubles (Clarity)	Clear Solution	Clear Solution	
Moisture	0.25% Max	0.25% Max	
Aluminum			2 ppm Max
Ammonia	Conforms*	Conforms*	
Arsenic	2 ppm Max		
Lead		2 ppm Max	
Cadmium			1 ppm Max
Copper			1 ppm Max
Iron			5 ppm Max
Mercury	1 ppm Max		
Limit of Sulfur	150 ppm Max		
Chloride	150 ppm Max		
Normal Carbonate	Passes USP Test		
Identification	Responds to Test	Responds to Test	

*Ammonia is not used in the Natural Soda manufacturing process. Controlled handling and storage of product ensures ammonia will not exceed USP limit. Absence of ammonia is confirmed on each lot via the FCC olfactory test.

Theoretical Properties:	The following properties are provided for convenience and references tested in the commercial product and no representation is made	
Thermal Decomposition:	Decomposes (without melting) into Na_2CO_3 , H_2O , and CO_2	
Alkali Equivalent:	1 lb. NaHCO ₃ = 0.369 lb. Na_2O	
Carbon Dioxide Equivalent:	1 lb. $NaHCO_3 = 0.524$ lb. CO_2	
Specific Gravity:	2.16 g / cm ³	
Specific Heat @ 25 °C:	20.94 cal / deg mol	
Solubility In Water @ 60 °C:	16.4 g / 100 g H ₂ O	
Solubility In Other Solvents:	Insoluble in Alcohol	
Heat Of Formation:	- 227.25 K cal / mol	Certified to NSF/ANSJ/CAN 60
Heat Of Solution:	3.81 K cal / mol	
Taste:	Slightly alkaline	
aging:	Handling:	Applications:

Packaging:

Multi-wall Paper Bags: 25 kg, 50 lb Bulk Sacks: 500 kg, 1000 kg, 2000 lb, 2450 lb Bulk: Truck

Shelf Life:

2 years from manufacturing date.

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.

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.