



## Arm & Hammer™ Sodium Bicarbonate Sorbent Grade

Reviewed: Feb. 16, 2024	Test Method	
Assay – dry basis	USP	Not less than 99.0% NaHCO <sub>3</sub>

### Granulation

Sieve Size (USS)	Microns	Ro-Tap Cumulative % Retained	
		Minimum	Maximum
100	149	0	100
200	74	20	100
325	44	60	100

### General Properties (Not Specifications)

Empirical Formula	NaHCO <sub>3</sub>
CAS Number	144-55-8
Other Names	Bicarbonate of Soda Sodium Hydrogen Carbonate Baking Soda
Chemical Abstract Name	Carbonic acid monosodium salt
E Number	E-500(ii)
Appearance	White crystalline powder
Taste	Slightly alkaline
Molecular Weight	84.01
Thermal Decomposition	Decomposes without melting into Na <sub>2</sub> CO <sub>3</sub> , H <sub>2</sub> O and CO <sub>2</sub> .
Crystal Density	137.3 lb /ft <sup>3</sup> , 2.2 g / cc
Bulk Density	61 lb/ft <sup>3</sup> , 0.977 g/cc
BTU / lb at 72°F	0.249
Solubility in water at 77°F	Approximately 9.5%
Solubility in Alcohol	Insoluble
Alkali Equivalent	1 lb NaHCO <sub>3</sub> = 0.369 lb Na <sub>2</sub> O
Acid Equivalent	1 lb NaHCO <sub>3</sub> = 0.435 lb HCl
Carbon Dioxide Equivalent	1 lb NaHCO <sub>3</sub> = 0.524 lb CO <sub>2</sub>
pH 1% aqueous soln at 77°F	Approximately 8.3.