



## Arm & Hammer™ Sodium Bicarbonate Compacted

Reviewed: January 24, 2025	Test Method	
Assay – dry basis	USP	Not less than 99.0% NaHCO <sub>3</sub>

### Granulation (Ro-Tap)

US Mesh	Fractional %
+ (On) 8	≤ 15
- (Through) 30 / + (on) 40	≤ 10
- Through 40 (Pan)	≤ 3

### 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	63 lb/ft <sup>3</sup> , 1.009 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.