



Arm & Hammer™ Sodium Bicarbonate Pool Pack Grade

| Reviewed: January 24, 2025 | Test Method | |
|----------------------------|-------------|--|
| Assay - dry basis | USP | Not less than 99.0% and not more than 100.5% of NaHCO ₃ |

Granulation

| Sieve Size (USS) | Microns | Ro-Tap Cumulative % Retained | |
|------------------|---------|------------------------------|---------|
| | | Minimum | Maximum |
| 100 | 149 | 45 | 100 |
| 325 | 44 | 70 | 100 |

General Properties (Not Specifications)

| | |
|-----------------------------|--|
| Empirical Formula | NaHCO ₃ |
| 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 ₂ CO ₃ , H ₂ O and CO ₂ . |
| Crystal Density | 137.3 lb / ft ³ , 2.2 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 ₃ = 0.369 lb Na ₂ O |
| Acid Equivalent | 1 lb NaHCO ₃ = 0.435 lb HCl |
| Carbon Dioxide Equivalent | 1 lb NaHCO ₃ = 0.524 lb CO ₂ |
| pH 1% aqueous soln at 77°F | Approximately 8.3. |