



Specification

Arm & Hammer™ Sodium Bicarbonate Industrial Grade

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| Reviewed: February 4, 2026 | |
| Assay – dry basis | Not less than 99.0% and not more than 100.5% of NaHCO ₃ |
| Certificate of Conformance issued. | |

General Properties (Not Specifications)

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| 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 |
| 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 |