



Specification

Arm & Hammer™ Sodium Bicarbonate Industrial Grade

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)

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