

Sodium Bicarbonate

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| Description | Sodium bicarbonate contains not less than 99.0 percent and not more than 100.5 percent of NaHCO ₃ calculated on a dry basis. | A white crystalline powder. It is stable in dry air, but slowly decomposes in moist air. Its solutions, when freshly prepared with cold water, without shaking, are alkaline to litmus. The alkalinity increase as the solutions stand, are agitated or are heated. |
| Identification | A solution of it responds to the tests for sodium and bicarbonate. | A 1 in 10 solution gives positives tests for sodium and bicarbonate. |
| Loss on Drying | Not more than 0.25% of its weight. | Not more than 0.25% by weight. |
| Insoluble Substances | Dissolve 1 g 20 ml of water: the resulting solution is complete and clear. | Passes Test. |
| Normal Carbonate | Meet Test | |
| Chloride | 150 ppm as Cl Max | |
| Limit of Sulphur Compounds | 150 ppm as SO ₄ Max | |
| Arsenic | 2 ppm Max | |
| Heavy Metals | 5 ppm Max | |
| Limit of Ammonia | Meets Requirements | |
| Organic Volatile Impurities | Meets Requirements | Passes Test |
| Assay Dry Basis | Not less than 99.0 % or not more than 100.5 % of NaHCO ₃ | Not less than 99% NaHCO ₃ after drying. |
| Lead | | Not more than 2 mg/kg |

Granulation (Powdered)

| Ro-Tap Cumulative % Retained | | | |
|------------------------------|---------|---------|---------|
| Sieve size (USS) | Microns | Minimum | Maximum |
| 100 | 75 | 0 | 2 |
| 200 | 74 | 20 | 45 |
| 325 | 44 | 60 | 100 |

General Properties

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| Empirical Formula | NaHCO ₃ |
| NaHCO ₃ | 1447-550-80 |
| Other Names | Bicarbonate of Soda, Sodium Acid Carbonate Baking Soda |
| Chemical Abstract Name | Carbonic Acid Monosodium Salt |
| Appearance | Slightly Alkaline |
| Molecular Weight | 84.01 |
| Thermal Decomposition | Decomposes without melting into Na ₂ CO ₃ , H ₂ O and CO ₂ |
| Bulk Density | 63 lb/ft ³ , 1.007 g/cc |
| Crystal Density | 137.3 lb/ft ³ , 2.2 g/cc |
| BTU / lb at 720f | 0.249 |
| 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 770 f | Approximately 8.3 |

Universal Oil Field: sodium bicarbonate msds, sodium bicarbonate, uses of sodium bicarbonate, msds sodium bicarbonate, sodium bicarbonate baking soda, msds of sodium bicarbonate, sodium bicarbonate manufacturers in india, sodium bicarbonate manufacturers, sodium bicarbonate suppliers