

Sodium Bicarbonate

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	%	0	2
200	74	20	45
325	44	60	100

General Properties

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