

Sodium bicarbonate

Chemical Properties

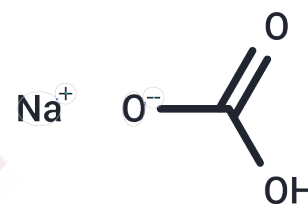
CAS No. : 144-55-8

Formula: NaHCO₃

Molecular Weight: 84.01

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | Sodium bicarbonate, also known as baking soda, is used in a wide range of applications in food, pharmaceuticals, cosmetics, etc. Sodium bicarbonate acts as a buffer, flavoring agent, disinfectant, pharmaceutical agent, and proton gradient modifier, and is often used as an antacid for the study of intestinal disorders. |
| Targets(IC50) | Others,Antibacterial |

Solubility Information

Solubility H₂O: 41.67 mg/mL (496.01 mM),Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 11.9033 mL | 59.5167 mL | 119.0334 mL |
| 5 mM | 2.3807 mL | 11.9033 mL | 23.8067 mL |
| 10 mM | 1.1903 mL | 5.9517 mL | 11.9033 mL |
| 50 mM | 0.2381 mL | 1.1903 mL | 2.3807 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Forsythe SM, et al. Sodium bicarbonate for the treatment of lactic acidosis. Chest. 2000 Jan;117(1):260-7.

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