Sodium hydroxide
SigmaUltra

Product Number S 8045
Store at Room Temperature

Product Description
Molecular Formula: NaOH
Molecular Weight: 40.00
CAS Number: 1310-73-2
Synonyms: caustic soda, soda lye

This product is in the form of pellets. Trace elemental analyses have been performed on the SigmaUltra sodium hydroxide. The Certificate of Analysis provides lot-specific results. SigmaUltra sodium hydroxide is for applications which require tight control of elemental content.

Sodium hydroxide (NaOH) is a caustic reagent that is widely used to neutralize acids and prepare sodium salts of reagents. It is also used in a variety of large-scale applications, such as pulp and paper manufacturing, the manufacture of soap and detergents, and water treatment.

Sodium hydroxide is utilized in the Maxam-Gilbert DNA sequencing technique. An RNA gel blot procedure that uses 50 mM NaOH for simultaneous transfer and fixing of RNA to a positively charged nylon membrane has been described. The decontamination of mycobacterial isolates using a sodium lauryl sulfate (SDS)/sodium hydroxide protocol has been reported.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in water (100-200 mg/ml), yielding a clear, colorless solution. The dissolution of sodium hydroxide in water is a highly exothermic (heat-producing) process.

Storage/Stability
Sodium hydroxide stock solutions should be stored in plastic containers. Glass containers should be completely avoided in the preparation and storage of sodium hydroxide solutions.

For volumetric NaOH solutions, it is necessary to protect them from air to avoid formation of carbonate in solution.

References
1. The Merck Index, 12th ed., Entry # 8772.


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