Sodium hydroxide
ACS Reagent

Product Code 22,146-5
Store at Room Temperature
 Exact replacement for Product Code S 0899

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. It is designated as ACS Reagent grade and meets the specifications of the American Chemical Society (ACS) for reagent chemicals.

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. A titration procedure for sodium hydroxide that contains contaminating sodium carbonate has been published.

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