

Sodium hydroxide

Cat. No. SHGZ-0001

Lot. No. (See product label)

Introduction

Description

Sodium hydroxide is supplied as a 2.0 M analytical titrant for routine acid-base analysis, alkaline solution preparation, and neutralization work.

Applications

Analytical titration; preparation of standard alkaline solutions; acid neutralization; sodium salt preparation; absorption of small amounts of carbon dioxide and moisture.

Synonyms

Caustic soda; Sodium hydrate; White caustic; Sodium hydroxide analytical titrant

Product Information

Form

Liquid

CAS No.

1310-73-2

Molecular Formula

NaOH

Chemical Name

Sodium hydroxide

Molecular Weight

40.00 g/mol

Concentration

2.0 M

Structure

Na⁺ and OH⁻ ions in aqueous solution.

Function

Strong base and analytical titrant.

Solubility

The sodium hydroxide component is highly soluble in water; 1 g dissolves in approximately 0.9 mL cold water and 0.3 mL boiling water. It is also soluble in methanol, ethanol, and glycerol.

Toxicity

Reported mouse intraperitoneal LD50: 40 mg/kg.

Quality

Analytical standard; analytical titrant

Grade

Analytical Standard; Analytical Titrant

Notes

Absorbs moisture and carbon dioxide from air. The solution is strongly alkaline.

Usage and Packaging

Package

1 L

Storage and Shipping Information

Storage

Store at room temperature in a dry area. Keep tightly closed and protect from atmospheric carbon dioxide and moisture.