

PRODUCT IDENTIFICATION

**Product Name:** Sodium Hydroxide 5% ACS Grade**CAS Number:** 1310-73-2**Molecular Formula:** HNaO**Molecular Weight:** 39.997 g/mol**Grade:** ACS Grade**Purity / Concentration:** 5%**Synonyms:** Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Sodium Hydroxide 5% solution in an ACS Grade, ensuring consistent performance for precise laboratory and industrial applications. This clear, colorless liquid provides a reliable 5% concentration, making it an essential reagent for titration, pH adjustment, and general chemical processing.

Grade Significance: ACS Grade indicates that the product meets the stringent purity standards set by the American Chemical Society, ensuring it is suitable for high-precision analytical and laboratory work.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Form	Liquid
Boiling Point	1390°C (pure)	Melting / Freezing Point	318°C (pure)
Specific Gravity	1.054	Solubility	Fully soluble in water
Molecular Formula	HNaO	Molecular Weight	39.997 g/mol

APPLICATIONS

- Analytical Chemistry** — Utilized as a standardized reagent for precise titration procedures and pH calibration in laboratory settings.
- Water Treatment** — Used for effective pH adjustment and alkalinity control in small-scale water purification and testing systems.
- Manufacturing** — Serves as a critical chemical intermediate for the synthesis of various specialty compounds and surface treatments.
- Education** — Provides a safe, pre-diluted concentration for academic experiments and chemistry demonstrations requiring controlled caustic environments.
- Food and Beverage** — Used in controlled cleaning and sanitization processes for equipment that requires precise alkaline exposure.

STORAGE & HANDLING

Sodium Hydroxide is a corrosive substance that requires storage in a cool, dry area away from incompatible materials like acids and certain metals to prevent hazardous reactions. Proper containment is essential because the chemical can cause severe skin burns and eye damage if handled or stored incorrectly.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Danger



Hazard Statements:

- H290: May be corrosive to metals
- H314: Causes severe skin burns and eye damage

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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