

PRODUCT IDENTIFICATION

**Product Name:** Ammonium Hydroxide 10% ACS Grade**CAS Number:** 1336-21-6**Molecular Formula:** H_5NO **Molecular Weight:** 35.046 g/mol**Grade:** ACS Grade**Purity / Concentration:** 10%**Synonyms:** Not Available

PRODUCT OVERVIEW

Ammonium Hydroxide 10% ACS Grade is a high-purity, clear, colorless liquid essential for precise laboratory and industrial applications. This reagent-grade solution offers reliable performance with a specific gravity of 0.958, meeting strict analytical standards for consistent chemical reactions.

Grade Significance: ACS Grade signifies that the product meets or exceeds the rigorous purity standards established by the American Chemical Society. This ensures that the chemical is suitable for analytical laboratory work where quality and consistency are non-negotiable.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid with moderate ammonia odor	Form	Liquid
Boiling Point	38°C (100°F)	Melting / Freezing Point	-58°C (-72°F)
Specific Gravity	0.958	Solubility	Fully soluble in water
Molecular Formula	H_5NO	Molecular Weight	35.046 g/mol

APPLICATIONS

- Analytical Chemistry** — Used as a high-purity reagent in laboratory titrations and pH adjustment procedures. Its ACS certification ensures the minimal impurity levels required for accurate scientific analysis.
- Pharmaceutical Manufacturing** — Functions as a pH control agent during the synthesis of active pharmaceutical ingredients. The controlled concentration ensures predictable results in complex chemical processes.
- Semiconductor Processing** — Utilized in precision cleaning applications to remove organic contaminants from surfaces. The ACS grade purity prevents residue buildup on sensitive electronic components.
- Environmental Testing** — Employed as a standard chemical agent in water quality testing and soil analysis. It provides the consistent baseline needed to detect trace elements in environmental samples.

STORAGE & HANDLING

Ammonium hydroxide must be stored in a cool, well-ventilated area to prevent pressure buildup and maintain concentration stability. Because it is corrosive to metals and causes severe skin burns, proper containment is critical to prevent accidental exposure and equipment degradation.

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:

- H314: Causes severe skin burns and eye damage [Danger Skin corrosion/irritation]
- H400: Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]

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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.