

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 analytical and industrial processes. Formulated to meet stringent American Chemical Society standards, this product provides reliable performance for laboratory testing and controlled chemical reactions.

Grade Significance: ACS Grade signifies that this product meets the rigorous purity standards established by the American Chemical Society, ensuring consistency and reliability for critical analytical applications. Using this grade minimizes the risk of trace impurities interfering with sensitive chemical reactions or experimental results.

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** — Utilized as a high-purity reagent for pH adjustment and analytical testing in laboratory environments.
- Semiconductor Manufacturing** — Used in cleaning processes to remove organic contaminants and particulates from silicon wafer surfaces.
- Pharmaceutical Production** — Serves as a critical intermediate or pH buffer in the synthesis of various active pharmaceutical ingredients.
- Water Treatment** — Applied for pH control and the neutralization of acidic wastewater streams in industrial treatment facilities.
- Food Processing** — Functions as a leavening agent or pH control agent in specific food manufacturing applications.

STORAGE & HANDLING

Ammonium Hydroxide must be stored in a cool, well-ventilated area to prevent the buildup of ammonia vapors, which can cause severe respiratory irritation. Because the substance is highly corrosive and toxic to aquatic life, secure containment and temperature control are vital to prevent accidental releases and maintain chemical stability.

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
- H335: May cause respiratory irritation
- H400: Very toxic to aquatic life

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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