

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

Alliance Chemical offers high-quality Ammonium Hydroxide 10% in an ACS Grade, ensuring reliability for sensitive laboratory and industrial applications. This clear, colorless liquid is formulated to meet rigorous standards, providing a precise 10% concentration for consistent experimental or processing results.

Grade Significance: ACS Grade signifies that the chemical meets the strict purity standards set by the American Chemical Society, ensuring it is suitable for use in high-precision laboratory and analytical work.

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 common reagent in laboratory settings for pH adjustment and as a complexing agent during qualitative inorganic analysis.
- Pharmaceutical Manufacturing** — Serves as a pH buffer and a precursor in the synthesis of various pharmaceutical intermediates and active ingredients.
- Electronics** — Utilized in precision cleaning processes for semiconductor wafers to remove organic and metallic contaminants from surfaces.
- Water Treatment** — Applied for effective pH control and neutralization of acidic wastewater streams to ensure environmental compliance.
- Textile Processing** — Used in the scouring and dyeing stages to facilitate proper chemical penetration and color fixation on fabrics.

STORAGE & HANDLING

Ammonium Hydroxide must be stored in a cool, well-ventilated area away from direct sunlight to prevent pressure buildup and degradation of the solution. Proper containment is essential to mitigate the risks of H314 skin burns and respiratory irritation associated with ammonia vapors.

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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