

PRODUCT IDENTIFICATION



Product Name: Ammonium Hydroxide 15% ACS Grade

CAS Number: 1336-21-6

Molecular Formula: H₅NO

Molecular Weight: 35.046 g/mol

Grade: ACS Grade

Purity / Concentration: 15%

Synonyms: Not Available

PRODUCT OVERVIEW

Ammonium Hydroxide 15% ACS Grade is a high-purity, clear, colorless liquid formulated for precise laboratory and industrial applications. This ACS-grade reagent ensures reliability for analytical testing where consistent chemical concentration is critical for accurate results.

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

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid with strong ammonia odor	Form	Liquid
Boiling Point	38°C (100°F)	Melting / Freezing Point	-58°C (-72°F)
Specific Gravity	0.938	Solubility	Fully soluble in water
Molecular Formula	H ₅ NO	Molecular Weight	35.046 g/mol

APPLICATIONS

- Analytical Chemistry** — Used as a high-purity reagent for pH adjustment and as a complexing agent in various titration procedures.
- Semiconductor Manufacturing** — Utilized in precision cleaning processes to remove organic and inorganic contaminants from silicon wafers.
- Water Treatment** — Acts as a neutralizing agent for acidic wastewater streams to help maintain optimal environmental compliance.
- Pharmaceutical Production** — Serves as a critical pH buffer and chemical intermediate during the synthesis of active pharmaceutical ingredients.
- Industrial Cleaning** — Applied as a powerful cleaning agent for removing residues in specialized equipment where high-purity chemicals are required.

STORAGE & HANDLING

Ammonium Hydroxide must be stored in a cool, well-ventilated area to prevent pressure buildup and chemical degradation. Because the product is corrosive and can cause severe skin burns or respiratory irritation, secure storage is essential to maintain workplace safety and prevent accidental exposure.

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
- 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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