

### PRODUCT IDENTIFICATION



**Product Name:** Ammonium Hydroxide 15% ACS Grade

**CAS Number:** 1336-21-6

**Molecular Formula:** H<sub>5</sub>NO

**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 chemical solution designed for precise laboratory and industrial applications. This clear, colorless liquid provides a consistent 15% concentration, ensuring reliable performance in sensitive analytical processes.

**Grade Significance:** ACS Grade indicates that this product meets the rigorous purity standards set by the American Chemical Society, ensuring it is suitable for critical analytical and laboratory use where impurity levels must be strictly controlled.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

*Certificate of Analysis data not available for this product.*

### PHYSICAL & CHEMICAL PROPERTIES

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

### APPLICATIONS

- Analytical Chemistry** — Used as a high-purity reagent for laboratory titration and pH adjustment in aqueous solutions.
- Semiconductor Manufacturing** — Utilized in cleaning processes to remove organic contaminants from silicon wafers due to its controlled impurity profile.
- Pharmaceutical Production** — Functions as a buffer or processing agent in the synthesis of active pharmaceutical ingredients.
- Water Treatment** — Applied in specialized treatment systems for pH control and chemical precipitation.
- Environmental Testing** — Serves as an essential component for standardized testing protocols requiring certified ACS reagent quality.

### STORAGE & HANDLING

Proper storage is critical because Ammonium Hydroxide is a volatile compound that releases ammonia gas, which can build pressure in sealed containers if not kept cool. Additionally, as a corrosive substance, it must be stored in a well-ventilated area to prevent the inhalation of fumes and to protect against accidental skin or eye contact.

## 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.*

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