

### PRODUCT IDENTIFICATION



**Product Name:** Ammonium Hydroxide 5% 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:** 5%

**Synonyms:** Not Available

### PRODUCT OVERVIEW

Ammonium Hydroxide 5% ACS Grade is a high-purity chemical solution designed for precise laboratory and industrial applications. This clear, colorless liquid is formulated to meet rigorous standards, ensuring consistent performance in sensitive chemical processes.

**Grade Significance:** ACS Grade signifies that this product meets the strict analytical standards set by the American Chemical Society, ensuring the reliability and purity required for critical research and analytical testing.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

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

### PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid with mild 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>	0.979	<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 titrations and pH adjustment in aqueous solutions.
- Electronics Manufacturing** — Utilized in the cleaning and etching of silicon wafers where high-purity chemicals are required to prevent contamination.
- Pharmaceuticals** — Acts as a critical pH control agent during the synthesis and purification of various pharmaceutical intermediates.
- Environmental Testing** — Employed as a standard laboratory reagent for the preparation of samples in environmental water quality analysis.

### STORAGE & HANDLING

Ammonium Hydroxide must be stored in a cool, well-ventilated area to prevent pressure buildup and potential release of ammonia gas. Proper containment is essential to mitigate the risk of severe skin burns and eye damage, as well as to prevent environmental contamination due to its toxicity to aquatic life.

## 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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