

PRODUCT IDENTIFICATION

**Product Name:** Ammonium Hydroxide 5% Technical Grade**CAS Number:** 1336-21-6**Molecular Formula:** H_5NO **Molecular Weight:** 35.046 g/mol**Grade:** Technical Grade**Purity / Concentration:** 5%**Synonyms:** Not Available

PRODUCT OVERVIEW

Ammonium Hydroxide 5% Technical Grade is a clear, colorless liquid solution formulated for reliable performance in various industrial and laboratory settings. With a concentration of 5%, this product is engineered to provide consistent chemical reactivity for general-purpose applications.

Grade Significance: Technical Grade indicates that this product is suitable for general industrial and laboratory applications where high-purity standards are not required, providing a cost-effective solution for routine chemical processes.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid with mild ammonia odor	Form	Liquid
Boiling Point	38°C (100°F)	Melting / Freezing Point	-58°C (-72°F)
Specific Gravity	0.979	Solubility	Fully soluble in water
Molecular Formula	H_5NO	Molecular Weight	35.046 g/mol

APPLICATIONS

- Laboratory Research** — Used as a pH adjuster and a common reagent in various analytical chemistry procedures.
- Industrial Cleaning** — Functions as an effective cleaning agent for removing organic residues and grease from industrial equipment.
- Water Treatment** — Utilized in controlled settings for pH neutralization and chemical stabilization processes.
- Manufacturing** — Serves as a chemical intermediate in the production of diverse industrial compounds and specialty chemicals.

STORAGE & HANDLING

Proper storage is essential to prevent the release of ammonia vapors, which can cause severe respiratory irritation and pose significant safety risks. Because this chemical is toxic to aquatic life and can cause severe skin burns, it must be kept in a cool, well-ventilated area in tightly sealed containers to maintain integrity and ensure workplace safety.

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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