

PRODUCT IDENTIFICATION



Product Name: Ammonium Hydroxide 10% Technical Grade
CAS Number: 1336-21-6
Molecular Formula: H_5NO
Molecular Weight: 35.046 g/mol
Grade: Technical Grade
Purity / Concentration: 10%
Synonyms: Not Available

PRODUCT OVERVIEW

Ammonium Hydroxide 10% Technical Grade is a clear, colorless aqueous solution widely utilized for general industrial and laboratory applications. This product maintains a precise 10% concentration, ensuring consistent performance for chemical processing and pH adjustment tasks.

Grade Significance: Technical Grade signifies that this product is manufactured for general industrial utility where high-purity laboratory standards are not required, providing a cost-effective solution for large-scale operations.

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

- Water Treatment** — Used as a pH adjuster to neutralize acidic water supplies and maintain optimal chemical balance.
- Industrial Cleaning** — Functions as a powerful cleaning agent for removing organic residues and grease from industrial machinery.
- Chemical Manufacturing** — Serves as a fundamental reagent in the synthesis of various nitrogen-containing chemical compounds.
- Textile Processing** — Applied in the treatment of fibers and fabrics to assist in dye penetration and pH regulation during production.

STORAGE & HANDLING

Proper storage is essential to prevent the release of pungent ammonia vapors and to maintain the integrity of the 10% concentration. Because the product is classified as causing severe skin burns and respiratory irritation, it must be stored in a cool, well-ventilated area to minimize hazardous exposure risks.

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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