

PRODUCT IDENTIFICATION



Product Name: Ammonium Hydroxide 10% Technical Grade

CAS Number: 1336-21-6

Molecular Formula: H₅NO

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 in general industrial and laboratory applications. This product maintains a precise 10% concentration, ensuring reliable performance for standard chemical processes.

Grade Significance: Technical Grade indicates that this product is formulated for industrial and manufacturing utility rather than pharmaceutical or food-grade applications, providing a balance of cost-effectiveness and functional purity for general use.

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 ₅ NO	Molecular Weight	35.046 g/mol

APPLICATIONS

- Industrial Cleaning** — Used as an effective cleaning agent for removing grease, wax, and organic residues from various surfaces.
- Laboratory Research** — Serves as a common reagent for pH adjustment and as a basic component in various analytical chemical procedures.
- Water Treatment** — Applied in municipal and industrial water systems to adjust pH levels and assist in the neutralization of acidic waste streams.
- Textile Manufacturing** — Functions as a scouring and bleaching agent to prepare fibers and fabrics for dyeing and finishing processes.
- Chemical Synthesis** — Acts as a precursor or reactant in the production of various nitrogen-containing chemical compounds.

STORAGE & HANDLING

Proper storage is critical because Ammonium Hydroxide is corrosive and poses severe skin and eye hazards. It must be kept in a cool, well-ventilated area to prevent pressure buildup from ammonia gas release, which could lead to container failure or inhalation 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:

- 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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