

PRODUCT IDENTIFICATION



Product Name: Ammonium Hydroxide 5% Technical Grade

CAS Number: 1336-21-6

Molecular Formula: H₅NO

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 aqueous solution primarily utilized in general industrial and laboratory applications. With a specific gravity of 0.979, this consistent concentration provides a reliable base for processes requiring mild alkaline properties.

Grade Significance: Technical Grade signifies that this product is manufactured for industrial and laboratory efficiency, offering a cost-effective solution where extreme analytical purity is not required.

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 ₅ NO	Molecular Weight	35.046 g/mol

APPLICATIONS

- Laboratory Research** — Used as a common reagent for pH adjustment and chemical synthesis in analytical laboratory settings.
- Industrial Cleaning** — Serves as an effective component in specialized cleaning formulations to dissolve organic contaminants and grime.
- Water Treatment** — Applied in controlled environments to neutralize acidic water streams and manage pH levels in industrial discharge.
- Textile Manufacturing** — Utilized in the processing of fibers to assist in dye leveling and the removal of impurities during fabric treatment.
- Metal Finishing** — Employed in surface treatment baths to assist in the cleaning and preparation of metal components before coating or plating.

STORAGE & HANDLING

Proper storage is critical because this chemical can cause severe skin burns and eye damage, necessitating secure containment to prevent accidental exposure. Furthermore, as it is very toxic to aquatic life, it must be stored in a cool, well-ventilated area away from incompatible materials to prevent environmental contamination and hazardous reactions.

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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