

PRODUCT IDENTIFICATION



Product Name: Ammonium Hydroxide 20% Technical Grade
CAS Number: 1336-21-6
Molecular Formula: H_5NO
Molecular Weight: 35.046 g/mol
Grade: Technical Grade
Purity / Concentration: 20%
Synonyms: Not Available

PRODUCT OVERVIEW

Ammonium Hydroxide 20% Technical Grade is a clear, colorless liquid widely used in general industrial and laboratory applications. With a specific gravity of 0.92, this reliable reagent provides consistent concentration for various chemical processes.

Grade Significance: Technical Grade indicates that the product is manufactured for general industrial utility where high-purity laboratory standards are not required, offering a cost-effective solution for bulk processes.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid with strong ammonia odor	Form	Liquid
Boiling Point	38°C (100°F)	Melting / Freezing Point	-58°C (-72°F)
Specific Gravity	0.92	Solubility	Fully soluble in water
Molecular Formula	H_5NO	Molecular Weight	35.046 g/mol

APPLICATIONS

- Manufacturing** — Used as a pH regulator in various chemical synthesis processes to maintain optimal reaction environments.
- Water Treatment** — Utilized for pH adjustment and as a source of nitrogen in biological wastewater treatment systems.
- Textile Industry** — Acts as a cleaning and scouring agent during the processing of natural and synthetic fibers.
- Laboratory Research** — Serves as a fundamental reagent for analytical testing and sample preparation in controlled environments.
- Metal Processing** — Employed in surface treatment applications and as an etching agent for specific metal components.

STORAGE & HANDLING

Proper storage is critical because Ammonium Hydroxide is volatile and can release ammonia gas, which is a respiratory hazard. Containers must be kept in a cool, well-ventilated area to prevent pressure buildup and exposure to the severe skin and eye hazards associated with this material.

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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