

### PRODUCT IDENTIFICATION



**Product Name:** Ammonium Hydroxide 20% Technical Grade

**CAS Number:** 1336-21-6

**Molecular Formula:** H<sub>5</sub>NO

**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

<b>Appearance</b>	Clear, colorless liquid with strong ammonia odor	<b>Form</b>	Liquid
<b>Boiling Point</b>	38°C (100°F)	<b>Melting / Freezing Point</b>	-58°C (-72°F)
<b>Specific Gravity</b>	0.92	<b>Solubility</b>	Fully soluble in water
<b>Molecular Formula</b>	H <sub>5</sub> NO	<b>Molecular Weight</b>	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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