

PRODUCT IDENTIFICATION



Product Name: Ammonium Hydroxide 20% ACS Grade

CAS Number: 1336-21-6

Molecular Formula: H_5NO

Molecular Weight: 35.046 g/mol

Grade: ACS Grade

Purity / Concentration: 20%

Synonyms: Not Available

PRODUCT OVERVIEW

Ammonium Hydroxide 20% ACS Grade is a high-purity chemical reagent essential for precise laboratory and industrial applications. This clear, colorless liquid serves as a reliable alkaline source, meeting the rigorous standards required for consistent analytical results.

Grade Significance: ACS Grade signifies that the chemical meets or exceeds the strict purity standards set by the American Chemical Society, ensuring reliability and accuracy for laboratory and research environments.

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

- Analytical Chemistry** — Used as a pH adjuster and a reagent in various analytical titration processes requiring high purity.
- Semiconductor Manufacturing** — Utilized in cleaning and etching processes where precise chemical control is vital to prevent wafer contamination.
- Pharmaceuticals** — Serves as an essential buffer solution and pH control agent in the synthesis of active pharmaceutical ingredients.
- Water Treatment** — Applied for pH adjustment and the neutralization of acidic waste streams in industrial water processing.
- Food Processing** — Functions as a leavening agent or pH regulator in specific food manufacturing applications under strict safety guidelines.

STORAGE & HANDLING

Proper storage is critical because ammonium hydroxide releases ammonia gas, which can build pressure and cause respiratory irritation. It must be stored in a cool, well-ventilated area away from incompatible materials to prevent dangerous reactions and ensure the chemical remains stable for use.

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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