

### PRODUCT IDENTIFICATION



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

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

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

**Molecular Weight:** 35.046 g/mol

**Grade:** ACS Grade

**Purity / Concentration:** 20%

**Synonyms:** Not Available

### PRODUCT OVERVIEW

Alliance Chemical offers high-quality Ammonium Hydroxide 20% in an ACS Grade, providing a reliable and stable solution for critical laboratory and industrial processes. This clear, colorless liquid is manufactured to meet stringent purity standards, ensuring consistent performance in sensitive chemical applications.

**Grade Significance:** ACS Grade signifies that this product meets the rigorous purity standards set by the American Chemical Society, ensuring it is suitable for demanding laboratory and analytical work where impurity interference must be minimized.

### 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

- Analytical Chemistry** — Used as a precise reagent for pH adjustment and buffering in laboratory titration experiments.
- Semiconductor Manufacturing** — Utilized in high-purity cleaning processes to remove organic contaminants from silicon wafer surfaces.
- Pharmaceuticals** — Functions as a critical chemical intermediate in the synthesis of various active pharmaceutical ingredients.
- Water Treatment** — Applied for pH control and the neutralization of acidic waste streams in industrial water management.
- Textile Processing** — Acts as a key agent in the dyeing and finishing of textiles to ensure consistent color adherence and fabric texture.

### STORAGE & HANDLING

Proper storage is essential to prevent the degradation of Ammonium Hydroxide, which can lose its ammonia concentration if exposed to heat or open air. Because it is classified as a corrosive material that causes severe skin burns and eye damage, it must be kept in a cool, well-ventilated area to maintain chemical integrity and worker safety.

## 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.*

---

**Alliance Chemical** | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)

**Disclaimer:** The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.