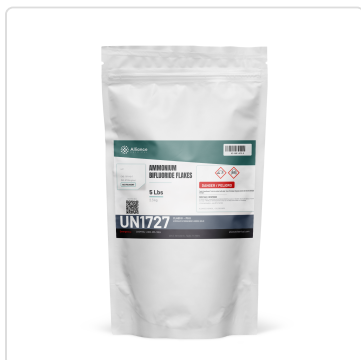


PRODUCT IDENTIFICATION



Product Name: Ammonium Bifluoride Flakes ACS Grade

CAS Number: 1341-49-7

Molecular Formula: F_2H_5N

Molecular Weight: 57.044 g/mol

Grade: ACS Grade

Purity / Concentration: Not Available

Synonyms: Not Available

PRODUCT OVERVIEW

Ammonium Bifluoride Flakes, provided in ACS Grade, are high-purity crystalline solids essential for precise chemical processing and laboratory analysis. This versatile compound is widely utilized as a powerful etching and cleaning agent due to its reactive fluoride content. Our product ensures consistent performance for critical industrial applications requiring strict adherence to analytical standards.

Grade Significance: ACS Grade designation signifies that the chemical meets the rigorous purity standards set by the American Chemical Society, ensuring it is suitable for demanding laboratory and analytical work. This provides end users with the confidence that their results will be consistent and free from trace contaminants.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	White crystalline flakes	Form	Solid
Boiling Point	463.1 °F at 760 mmHg (Decomposes at 463.1 °F) (USCG, 1999)	Melting / Freezing Point	258 °F (USCG, 1999)
Specific Gravity	1.5	Solubility	Highly soluble in water
Molecular Formula	F_2H_5N	Molecular Weight	57.044 g/mol

APPLICATIONS

- Glass Manufacturing** — Used as a frosting agent for glass surfaces, providing a uniform matte finish through controlled chemical etching.
- Oil and Gas** — Applied in well acidizing processes to dissolve silicate minerals and improve permeability in rock formations.
- Metal Finishing** — Acts as an effective cleaner and brightener for aluminum and other non-ferrous metals by removing surface oxides.
- Laboratory Research** — Serves as a high-purity reagent for analytical procedures requiring strict adherence to ACS specifications.
- Electronics** — Utilized in the preparation of specialized cleaning solutions for semiconductor components where high purity is mandatory.

STORAGE & HANDLING

Proper storage is critical because Ammonium Bifluoride is toxic if swallowed and causes severe skin burns and eye damage. It must be kept in a tightly sealed, corrosion-resistant container in a cool, dry area to prevent moisture absorption and accidental exposure. Maintaining these conditions ensures the chemical remains stable and prevents the release of hazardous vapors.

AVAILABLE PACKAGING

- Flakes

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Danger



Hazard Statements:

- H314: Causes severe skin burns and eye damage
- H301: Toxic if swallowed

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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