

PRODUCT IDENTIFICATION



Product Name: Nitric Acid ACS 69% - 55 Gallon Drum

CAS Number: 7697-37-2

Molecular Formula: HNO_3

Molecular Weight: 63.013 g/mol

Grade: ACS Reagent Grade

Purity / Concentration: 69%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-purity Nitric Acid 69% in a 55-gallon drum, manufactured to meet stringent ACS Reagent Grade specifications. This colorless, fuming liquid serves as a powerful oxidizing agent and essential reagent for diverse industrial and laboratory applications.

Grade Significance: ACS Reagent Grade indicates that the chemical meets or exceeds the high purity standards set by the American Chemical Society, ensuring reliability for analytical and critical industrial processes.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Colorless, fuming liquid	Form	Liquid
Boiling Point	Not characterized for the 69% solution	Melting / Freezing Point	Not characterized for the 69% solution
Specific Gravity	1.41	Solubility	Miscible with water and organic solvents
Molecular Formula	HNO_3	Molecular Weight	63.013 g/mol

APPLICATIONS

- Metal Finishing** — Used extensively for pickling and metal etching processes to clean surfaces and remove impurities. It provides the necessary oxidative strength to prepare metal components for plating or coating.
- Pharmaceutical Manufacturing** — Functions as a critical reagent in the synthesis of active pharmaceutical ingredients. Its high purity ensures consistent chemical reactions during complex molecular modifications.
- Semiconductor Industry** — Utilized in high-precision cleaning and etching procedures for silicon wafers. The ACS grade ensures that trace metallic impurities are kept below detection limits to prevent contamination.
- Laboratory Research** — Serves as a fundamental acid for analytical chemistry, sample digestion, and chemical analysis. It is the gold standard for labs requiring reproducible results in titration and synthesis.
- Aerospace** — Applied in the passivation of stainless steel parts to enhance corrosion resistance. This process is vital for maintaining structural integrity in high-performance aerospace components.

STORAGE & HANDLING

Proper storage is critical because Nitric Acid 69% is a strong oxidizer and is corrosive to both respiratory tissue and many metals. It must be kept in a cool, well-ventilated area away from incompatible materials like organic substances to prevent hazardous reactions and pressure buildup in the drum.

AVAILABLE PACKAGING

- 55 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- EUH071: Corrosive to the respiratory tract
- H272: May intensify fire; oxidiser
- H290: May be corrosive to metals
- H314: Causes severe skin burns and eye damage
- H331: Toxic if inhaled
- H271: May cause fire or explosion; strong oxidizer

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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