

PRODUCT IDENTIFICATION



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

CAS Number: 7697-37-2

Molecular Formula: HNO₃

Molecular Weight: 63.013 g/mol

Grade: ACS Reagent Grade

Purity / Concentration: 69%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers Nitric Acid ACS Reagent Grade at a 69% concentration, providing a high-purity solution for rigorous laboratory and industrial applications. This colorless, fuming liquid is a powerful oxidizer, ensuring reliable performance in sensitive chemical processes.

Grade Significance: ACS Reagent Grade signifies that the chemical meets the strict purity standards set by the American Chemical Society, ensuring it is suitable for use in demanding analytical and scientific research.

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	83°C (181.4°F)	Melting / Freezing Point	-42°C (-43.6°F)
Specific Gravity	1.41	Solubility	Miscible with water and organic solvents
Molecular Formula	HNO ₃	Molecular Weight	63.013 g/mol

APPLICATIONS

- Analytical Chemistry** — Used as a primary reagent for sample digestion and elemental analysis in high-precision laboratory settings.
- Metal Processing** — Essential for the etching and cleaning of various metals, ensuring surface purity before fabrication or plating.
- Pharmaceutical Manufacturing** — Utilized as a high-purity chemical intermediate in the synthesis of specialized pharmaceutical compounds.
- Semiconductor Industry** — Applied in the cleaning and etching of silicon wafers where high-grade purity is required to prevent contamination.

STORAGE & HANDLING

Due to its status as a strong oxidizer and its corrosive nature, Nitric Acid must be stored in a cool, well-ventilated area away from incompatible organic materials. Proper storage prevents hazardous reactions and degradation of the acid, ensuring both worker safety and product integrity.

AVAILABLE PACKAGING

- 55 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H272: May intensify fire; oxidizer [Danger Oxidizing liquids; Oxidizing solids]
- H314: Causes severe skin burns and eye damage [Danger Skin corrosion/irritation]
- H330: Fatal if inhaled [Danger Acute toxicity, inhalation]
- 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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

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