

PRODUCT IDENTIFICATION

**Product Name:** Nitric Acid 69% Technical Grade**CAS Number:** 7697-37-2**Molecular Formula:** HNO_3 **Molecular Weight:** 63.013 g/mol**Grade:** Technical Grade**Purity / Concentration:** Not Available**Synonyms:** Not Available

PRODUCT OVERVIEW

Nitric Acid 69% Technical Grade is a powerful, high-purity oxidizing agent essential for various industrial and laboratory applications. With a specific gravity of approximately 1.41, this concentrated solution provides consistent reactivity for chemical processing and synthesis.

Grade Significance: Technical Grade provides a cost-effective solution for industrial applications where extreme analytical purity is not required but consistent chemical performance is essential. It offers the reliability needed for heavy-duty manufacturing without the premium cost of reagent-grade chemicals.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Specific Gravity	~1.41	Molecular Formula	HNO_3
Molecular Weight	63.013 g/mol		

APPLICATIONS

- Metal Processing** — Used extensively for metal etching and cleaning processes to remove impurities from surfaces. It ensures high-quality finishes on components before further treatment.
- Chemical Manufacturing** — Serves as a critical reagent in the production of various nitrates and organic compounds. Its strong oxidizing properties facilitate complex synthesis pathways.
- Laboratory Research** — Utilized as a common acid for sample digestion and glassware cleaning in analytical settings. It helps maintain the cleanliness and integrity of sensitive equipment.
- Water Treatment** — Applied in pH adjustment and system cleaning protocols for industrial water cycles. It helps prevent scale buildup and maintains optimal system efficiency.

STORAGE & HANDLING

Due to its status as a strong oxidizer and its corrosive nature, this acid must be stored in a cool, well-ventilated area away from incompatible materials like organics and bases. Proper containment is vital to prevent fire hazards and respiratory exposure, ensuring both facility safety and product stability.

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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