

PRODUCT IDENTIFICATION



Product Name: Nitric Acid 65% 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 65% Technical Grade is a potent oxidizing agent widely utilized in industrial and laboratory settings for its high reactivity and versatility. With a specific gravity of approximately 1.39, this clear liquid is a foundational chemical for various manufacturing and analytical processes.

Grade Significance: Technical Grade indicates that this product is manufactured for general industrial and laboratory applications where high functionality is required, though it is not intended for pharmaceutical or food-grade use.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Specific Gravity	~1.39	Molecular Formula	HNO_3
Molecular Weight	63.013 g/mol		

APPLICATIONS

- Metal Processing** — Used extensively for metal etching and cleaning, helping to remove impurities and prepare surfaces for plating or coating.
- Laboratory Research** — Serves as a vital reagent in analytical chemistry for sample digestion and the preparation of metal standard solutions.
- Chemical Manufacturing** — Acts as a key precursor in the synthesis of various nitrates and organic compounds required for industrial production.
- Water Treatment** — Utilized in specific pH adjustment and cleaning protocols for industrial water systems to prevent mineral scale accumulation.

STORAGE & HANDLING

Proper storage is critical because Nitric Acid 65% is a strong oxidizer that can intensify fires and corrode many common metals. It must be stored in a cool, well-ventilated area away from incompatible materials like bases and organic solvents to prevent hazardous chemical reactions or structural damage to storage containers.

AVAILABLE PACKAGING

- 1 Liter
- 2.5 Liter
- 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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