

PRODUCT IDENTIFICATION



Product Name: Nitric Acid 70% 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 70% Technical Grade is a high-strength oxidizing agent formulated for demanding industrial and laboratory applications. With a specific gravity of approximately 1.41, this powerful mineral acid provides the consistent reactivity required for diverse chemical processes.

Grade Significance: Technical Grade indicates that the product is manufactured for general industrial utility where high performance is required, though it is not intended for pharmaceutical or food-grade applications.

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 where high-purity oxidation is required to remove surface impurities.
- Chemical Manufacturing** — Serves as a vital reagent in the synthesis of various organic and inorganic compounds, including fertilizers and explosives precursors.
- Laboratory Research** — Provides a reliable source of concentrated acid for analytical testing, sample digestion, and general laboratory reagent purposes.
- Surface Treatment** — Utilized in the pickling and passivation of stainless steel to enhance corrosion resistance and improve surface aesthetics.
- Water Treatment** — Applied in specific pH adjustment and cleaning protocols to maintain optimal operating conditions within industrial water systems.

STORAGE & HANDLING

Proper storage is critical because Nitric Acid 70% is a potent oxidizer that can intensify fires and corrode various metals. It must be kept in a cool, well-ventilated area in compatible containers to prevent hazardous reactions and the release of corrosive respiratory vapors.

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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