



# Product Specification

**Product Name:** NITRIC ACID 70% AR

Alternate Name(s)

Description

Clear and colourless, corrosive liquid. NOTE: This material may darken during storage due to photochemical reactions.

Properties

Chemical Formula: HNO<sub>3</sub>

Molecular Weight: 63.01

Product Code: NA001

CAS No. 7697-37-2

General Information:

Highly corrosive to most metals. Not combustible; powerful oxidant; may cause fire in contact with organic materials, evolving highly toxic gases.

Hazard and Safety Data

UN Group: II  
Class: 8, 5.1  
UN Number: 2031  
Hazchem code: 2R  
CS MSDS Code: 1CHGO  
Poison schedule: S6  
Emergency  
Procedure Guide No.: 40

Quality Specification

Typical Assay: 68.0-70.0%.

Specific Properties and Impurities [Typical Levels]

Specific Gravity	1.4134	Boiling Point	122 °C
Vapour Density	2-3 (Air = 1)	pH Value	<1 (20 °C)
Viscosity	0.761 cP (25 °C)	Melting Point	-42 °C
Colour (APHA)	≤ 10	Residue after ignition	≤ 0.0005%
Chloride (Cl)	≤ 0.00005%	Sulfate (SO <sub>4</sub> )	≤ 0.0001%
Phosphate (PO <sub>4</sub> )	≤ 0.00005%	Silicate (SiO <sub>2</sub> )	≤ 0.00005%
Heavy metals (as Pb)	≤ 0.00002%	Aluminium (Al)	≤ 0.00001%
Arsenic (As)	≤ 0.000001%	Barium (Ba)	≤ 0.000005%
Cadmium (Cd)	≤ 0.000002%	Calcium (Ca)	≤ 0.0001%
Chromium (Cr)	≤ 0.000005%	Cobalt (Co)	≤ 0.000001%
Copper (Cu)	≤ 0.000002%	Iron (Fe)	≤ 0.00002%
Lead (Pb)	≤ 0.000005%	Magnesium (Mg)	≤ 0.00002%
Manganese (Mn)	≤ 0.000001%	Molybdenum (Mo)	≤ 0.000002%
Nickel (Ni)	≤ 0.000005%	Potassium (K)	≤ 0.00002%
Sodium (Na)	≤ 0.0003%	Strontium (Sr)	≤ 0.000002%
Zinc (Zn)	≤ 0.00001%		

CONFORMS TO ACS

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