



# Product Specification

## Product Name: NITRIC ACID 68% LR

Alternate Name(s)

### Description

Transparent colourless or yellowish, fuming, suffocating, hygroscopic, 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: NL001

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

Assay: 67.50% min.

### Specific Properties and Impurities [Typical levels]:

Vapour Density	2-3 (Air = 1)
Specific Gravity	1.4134
Boiling Point	122 °C
Melting Point	-42 °C
Specific gravity at 20°C	1.405 min.
Residue on ignition	≤ 0.025%
Chloride (Cl)	≤ 0.002%
Nitrous acid (HNO <sub>2</sub> )	≤ 0.01%
Iron (Fe)	≤ 0.0005%
Sulphate (H <sub>2</sub> SO <sub>4</sub> )	≤ 0.005%

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38 - 50 Bedford Street, Gillman SA 5013, Australia ABN 19 008 264 211 PO Box 201, Port Adelaide SA 5015, Australia  
Telephone +61 8 8440 2000 Fax +61 8 8440 2001 E-mail: sales@chemsupply.com.au Web: www.chemsupply.com.au

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