

Nitric acid 69% AnalaR NORMAPUR® analytical reagent

Danger

CAS 7697-37-2

UN: 2031

M.W. 63.01 g/mol

HNO₃

Boiling Pt: 120,5 °C (1013 hPa)

Melting Pt: -42 °C

Density: 1,4 g/cm³ (20 °C)

Storage Temperature: Ambient

Assay..... 68.5 - 69.5 %

PO₄ (Phosphate)..... Max. 0.00005 %

As + Sb (as As)..... Max. 0.000001 %

Au (Gold)..... Max. 0.00001 %

Ba (Barium)..... Max. 0.000005 %

Bi (Bismuth)..... Max. 0.00001 %

Cd (Cadmium)..... Max. 0.000002 %

Cr (Chromium)..... Max. 0.000002 %

Fe (Iron)..... Max. 0.00002 %

Ge (Germanium)..... Max. 0.00001 %

K (Potassium)..... Max. 0.00001 %

Mg (Magnesium)..... Max. 0.000010 %

Mo (Molybdenum)..... Max. 0.000002 %

Ni (Nickel)..... Max. 0.000002 %

Pt (Platinum)..... Max. 0.00002 %

Ti (Titanium)..... Max. 0.00001 %

V (Vanadium)..... Max. 0.000005 %

Zr (Zirconium)..... Max. 0.00001 %

Cl (Chloride)..... Max. 0.00005 %

SO₄ (Sulphate)..... Max. 0.00005 %

Al (Aluminium)..... Max. 0.000005 %

B (Boron)..... Max. 0.000005 %

Be (Beryllium)..... Max. 0.000002 %

Ca (Calcium)..... Max. 0.000010 %

Co (Cobalt)..... Max. 0.000001 %

Cu (Copper)..... Max. 0.000002 %

Ga (Gallium)..... Max. 0.000002 %

In (Indium)..... Max. 0.000002 %

Li (Lithium)..... Max. 0.000002 %

Mn (Manganese)..... Max. 0.000001 %

Na (Sodium)..... Max. 0.00003 %

Pb (Lead)..... Max. 0.000005 %

Sr (Strontium)..... Max. 0.000002 %

Tl (Thallium)..... Max. 0.000005 %

Zn (Zinc)..... Max. 0.00001 %

Residue on ignition..... Max. 0.0005 %

Cat. No.	Pk	Pack type
101685D	2,5 l	Glass bottle SAFEBREAK

Nitric acid 69% VLSI Selectipur® for the electronics industry

Danger

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HNO₃

Boiling Pt: 120,5 °C (1013 hPa)

Melting Pt: -42 °C

Density: 1,4 g/cm³ (20 °C)

Storage Temperature: Ambient

Cat. No.	Pk	Pack type
50489134.	2,5 l	Glass bottle
50178448.	280 kg	Plastic drum

Nitric acid 68% AnalaR NORMAPUR® analytical reagent

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Boiling Pt: 120,5 °C (1013 hPa)

Melting Pt: -42 °C

Density: 1,4 g/cm³ (20 °C)

Storage Temperature: Ambient

Assay..... 68.0 - 70.0 %

Ignition residue (SO₄)..... Max. 10 ppm

PO₄ (Phosphate)..... Max. 2 ppm

As (Arsenic)..... Max. 0.01 ppm

Mn (Manganese)..... Max. 0.4 ppm

Density (20/4)..... 1.404 - 1.413

Cl (Chloride)..... Max. 0.5 ppm

SO₄ (Sulphate)..... Max. 2 ppm

Fe (Iron)..... Max. 1 ppm

Pb (Lead)..... Max. 0.05 ppm

Cat. No.	Pk	Pack type
20422.242	1 l	Glass bottle SAFEBREAK
20422.297	1 l	Glass bottle
20422.320	2,5 l	Plastic bottle
20422.322	2,5 l	Glass bottle SAFEBREAK
20422.360	5 l	Plastic bottle

Nitric acid 68% GPR RECTAPUR®

Danger

CAS 7697-37-2

UN: 2031

M.W. 63.01 g/mol

HNO₃

Boiling Pt: 120,5 °C (1013 hPa)

Melting Pt: -42 °C

Density: 1,4 g/cm³ (20 °C)

Storage Temperature: Ambient

Assay..... 68 - 70 %

Density (20/4)..... 1.400 - 1.420

Heavy metals (as Pb)..... Max. 20 ppm

Ignition residue (SO₄)..... Max. 50 ppm

Cl (Chloride)..... Max. 5 ppm

SO₄ (Sulphate)..... Max. 5 ppm

Fe (Iron)..... Max. 2 ppm

Pb (Lead)..... Max. 1 ppm

Cat. No.	Pk	Pack type
20413.420	2,5 l	Plastic bottle
20413.365	5 l	Plastic bottle
20413.460	25 l	Plastic drum

Nitric acid 68% TECHNICAL

Danger

CAS 7697-37-2

UN: 2031

M.W. 63.01 g/mol

HNO₃

Boiling Pt: 120,5 °C (1013 hPa)

Melting Pt: -42 °C

Density: 1,4 g/cm³ (20 °C)

Storage Temperature: Ambient

Assay..... 68 - 70 %

Cat. No.	Pk	Pack type
20406.292	1 l	Plastic bottle
20406.320	2,5 l	Plastic bottle
20406.361	5 l	Plastic bottle

Nitric acid 67% ULTRAPURE NORMATOM® for trace metal analysis

Danger

CAS 7697-37-2

UN: 2031

M.W. 63.01 g/mol

HNO₃

Boiling Pt: 120,5 °C (1013 hPa)

Melting Pt: -42 °C

Density: 1,4 g/cm³ (20 °C)

Storage Temperature: Ambient

Assay..... Min. 67 %

Ag (Silver)..... Max. 10 ppt

Al (Aluminium)..... Max. 20 ppt

As (Arsenic)..... Max. 20 ppt

Au (Gold)..... Max. 20 ppt

B (Boron)..... Max. 20 ppt

Ba (Barium)..... Max. 10 ppt

Be (Beryllium)..... Max. 10 ppt

Bi (Bismuth)..... Max. 10 ppt

Ca (Calcium)..... Max. 20 ppt

Cd (Cadmium)..... Max. 10 ppt

Ce (Cerium)..... Max. 10 ppt

Co (Cobalt)..... Max. 10 ppt

Cr (Chromium)..... Max. 20 ppt

Cs (Cesium)..... Max. 10 ppt

Cu (Copper)..... Max. 20 ppt

Dy (Dysprosium)..... Max. 1 ppt

Er (Erbium)..... Max. 1 ppt

Eu (Europium)..... Max. 1 ppt

Fe (Iron)..... Max. 20 ppt

Ga (Gallium)..... Max. 10 ppt

Gd (Gadolinium)..... Max. 1 ppt

Ge (Germanium)..... Max. 10 ppt

Hf (Hafnium)..... Max. 10 ppt

Hg (Mercury)..... Max. 100 ppt

Ho (Holmium)..... Max. 1 ppt

In (Indium)..... Max. 1 ppt

K (Potassium)..... Max. 10 ppt

La (Lanthanum)..... Max. 1 ppt

Li (Lithium)..... Max. 10 ppt

Lu (Lutetium)..... Max. 1 ppt

Mg (Magnesium)..... Max. 10 ppt

Mn (Manganese)..... Max. 10 ppt

Mo (Molybdenum)..... Max. 10 ppt

Nb (Niobium)..... Max. 1 ppt

Nd (Neodymium)..... Max. 1 ppt

Ni (Nickel)..... Max. 50 ppt

Pd (Palladium)..... Max. 20 ppt

Pb (Lead)..... Max. 10 ppt

Pt (Platinum)..... Max. 20 ppt

Pr (Praseodymium)..... Max. 1 ppt

Rb (Rubidium)..... Max. 10 ppt

Re (Rhenium)..... Max. 10 ppt

Rh (Rhodium)..... Max. 10 ppt

Ru (Ruthenium)..... Max. 20 ppt

Sb (Antimony)..... Max. 10 ppt

Sc (Scandium)..... Max. 10 ppt

Sm (Samarium)..... Max. 1 ppt

Sn (Tin)..... Max. 20 ppt

Sr (Strontium)..... Max. 10 ppt

Tb (Terbium)..... Max. 1 ppt

Te (Tellurium)..... Max. 1 ppt

Th (Thorium)..... Max. 1 ppt

Ti (Titanium)..... Max. 10 ppt

Tl (Thallium)..... Max. 10 ppt

Tm (Thulium)..... Max. 1 ppt

U (Uranium)..... Max. 1 ppt

V (Vanadium)..... Max. 10 ppt

W (Tungsten)..... Max. 10 ppt

Y (Yttrium)..... Max. 1 ppt

Yb (Ytterbium)..... Max. 1 ppt

Zn (Zinc)..... Max. 20 ppt

Zr (Zirconium)..... Max. 10 ppt

Cat. No.	Pk	Pack type
83879.270	500 ml	Plastic bottle
83879.290	1 l	Plastic bottle
83879.300	2 l	Plastic bottle

Material	20422.297
Material description	Nitric acid 68%
Grade	AnalaR NORMAPUR
CAS Number	7697-37-2
Molecular formula	HNO ₃
Molecular mass	63.01

Characteristics	Specifications
Assay	68.0 - 70.0 %
Density (20/4)	1.404 - 1.413
Ignition residue (SO ₄)	≤ 10 ppm
Cl (Chloride)	≤ 0.5 ppm
PO ₄ (Phosphate)	≤ 2 ppm
SO ₄ (Sulphate)	≤ 2 ppm
As (Arsenic)	≤ 0.01 ppm
Fe (Iron)	≤ 1 ppm
Mn (Manganese)	≤ 0.4 ppm
Pb (Lead)	≤ 0.05 ppm

Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

Isabelle Habay, Head of Laboratory - Briare
VWR International S.A.S.; Z.I. de Vaugereau; FR-45250
Briare; France

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