

**Nitric Acid, solution min. 65% w/w, for analysis, ExpertQ®, ISO, max. 0,000005% Hg**
**Identification**

HNO<sub>3</sub>  
M = 63,01 g/mol  
CAS [7697-37-2]  
EC number: 231-714-2  
Taric code: 2808 00 00

**Applications**

oxidizing agent, synthesis of nitrates and organic nitro compounds.

**Specifications**

assay (acidimetric).....	min. 65 %	indium (In).....	max. 0,02 ppm
chlorides (Cl).....	max. 0,00002 %	iron (Fe).....	max. 0,2 ppm
fluorides (F).....	max. 0,0001 %	lead (Pb).....	max. 0,01 ppm
phosphates (as PO <sub>4</sub> ).....	max. 0,00002 %	lithium (Li).....	max. 0,01 ppm
sulfates (SO <sub>4</sub> ).....	max. 0,00005 %	magnesium (Mg).....	max. 0,05 ppm
aluminium (Al).....	max. 0,05 ppm	manganese (Mn).....	max. 0,01 ppm
arsenic (As).....	max. 0,01 ppm	mercury (Hg).....	max. 0,005 ppm
barium (Ba).....	max. 0,01 ppm	molybdenum (Mo).....	max. 0,01 ppm
beryllium (Be).....	max. 0,01 ppm	nickel (Ni).....	max. 0,02 ppm
bismuth (Bi).....	max. 0,1 ppm	platinum (Pt).....	max. 0,1 ppm
cadmium (Cd).....	max. 0,01 ppm	potassium (K).....	max. 0,1 ppm
calcium (Ca).....	max. 0,1 ppm	silver (Ag).....	max. 0,01 ppm
chromium (Cr).....	max. 0,02 ppm	sodium (Na).....	max. 0,2 ppm
cobalt (Co).....	max. 0,01 ppm	strontium (Sr).....	max. 0,01 ppm
copper (Cu).....	max. 0,01 ppm	thallium (Tl).....	max. 0,02 ppm
gallium (Ga).....	max. 0,05 ppm	titanium (Ti).....	max. 0,02 ppm
germanium (Ge).....	max. 0,02 ppm	vanadium (V).....	max. 0,01 ppm
gold (Au).....	max. 0,05 ppm	zinc (Zn).....	max. 0,02 ppm
heavy metals (as Pb).....	max. 0,2 ppm	zirconium (Zr).....	max. 0,02 ppm
		residue on ignition (as SO <sub>4</sub> ).....	max. 0,0003 %

**Physical data**

- Density: 1,41 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: ~ -31 °C
- Boiling point: 122 °C
- Vapour pressure: (20 °C) 9,4 hPa
- pH(20 °C) <1

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H314: Causes severe skin burns and eye damage.  
H272: May intensify fire; oxidiser.  
H290: May be corrosive to metals.  
H331: Toxic if inhaled.  
EUH071: Corrosive to the respiratory tract.


**Precautionary Statements:**

- P221: Take any precaution to avoid mixing with combustibles.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor / physician.  
P370+P378: In case of fire: Use ... for extinction.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 8 CO1 II • UN 2031 • NITRIC ACID
- IMDG: 8 II • UN 2031 • NITRIC ACID
- IATA/ICAO: 8 II • UN 2031 • NITRIC ACID
- CAO: 855
- 10°C - 30°C