

**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. 60 %	iron (Fe).....	max. 0,00002 %
chlorides (Cl).....	max. 0,00005 %	lead (Pb).....	max. 0,000001 %
fluorides (F).....	max. 0,0001 %	lithium (Li).....	max. 0,000002 %
phosphates (as PO <sub>4</sub> ).....	max. 0,0001 %	magnesium (Mg).....	max. 0,00001 %
sulfates (SO <sub>4</sub> ).....	max. 0,0001 %	manganese (Mn).....	max. 0,000001 %
aluminium (Al).....	max. 0,000005 %	molybdenum (Mo).....	max. 0,000002 %
arsenic (As).....	max. 0,000001 %	nickel (Ni).....	max. 0,000005 %
barium (Ba).....	max. 0,000002 %	potassium (K).....	max. 0,00001 %
beryllium (Be).....	max. 0,000001 %	silver (Ag).....	max. 0,000001 %
bismuth (Bi).....	max. 0,00001 %	sodium (Na).....	max. 0,00005 %
cadmium (Cd).....	max. 0,00005 %	strontium (Sr).....	max. 0,000001 %
calcium (Ca).....	max. 0,00005 %	thallium (Tl).....	max. 0,000005 %
chromium (Cr).....	max. 0,00001 %	titanium (Ti).....	max. 0,00001 %
cobalt (Co).....	max. 0,000001 %	vanadium (V).....	max. 0,000001 %
copper (Cu).....	max. 0,000001 %	zinc (Zn).....	max. 0,000005 %
germanium (Ge).....	max. 0,000005 %	zirconium (Zr).....	max. 0,00001 %
heavy metals (as Pb).....	max. 0,00002 %	residue on ignition (as SO <sub>4</sub> ).....	max. 0,0005 %

**Packaging**
**Packaging Code**

- 1 l  AC16021000
- 2,5 l  AC16022500
- 5 l  AC1602005P
- 25 l  AC1602025P

**Physical data**

- Density: 1,37 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: -22 °C
- Boiling point: ~ 120 °C
- pH(20 °C) < 1

**Safety - GHS**

**Signal Word:** Danger


**Hazard Statements:**

- H314: Causes severe skin burns and eye damage.
- H272: May intensify fire; oxidiser.

**Precautionary Statements:**

- P221: Take any precaution to avoid mixing with combustibles.
- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
- 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.
- P405: Store locked up.
- P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

- MAK: 2 ml/m<sup>3</sup>, 5,2 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 2

**Transport/storage**

- ADR: 8 C1 II • UN 2031 • NITRIC ACID
- IMDG: 8 II • UN 2031 • NITRIC ACID
- IATA/ICAO: 8 II • UN 2031 • NITRIC ACID
- PAX: 807
- CAO: 813
- Store below 25°C