




**Identification**

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

**Specifications**

assay (acidimetric).....	67 - 70 %	manganese (Mn).....	max. 0,1 ppb
colour (Hazen).....	max. 10	mercury (Hg).....	max. 0,1 ppb
chlorides (Cl).....	max. 200 ppb	molybdenum (Mo).....	max. 0,1 ppb
total phosphorus (P).....	max. 10 ppb	neodymium (Nd).....	max. 0,1 ppb
total sulfur (S).....	max. 300 ppb	nickel (Ni).....	max. 0,5 ppb
aluminium (Al).....	max. 1 ppb	niobium (Nb).....	max. 0,1 ppb
antimony (Sb).....	max. 0,5 ppb	palladium (Pd).....	max. 0,5 ppb
arsenic (As).....	max. 0,5 ppb	platinum (Pt).....	max. 0,5 ppb
barium (Ba).....	max. 0,1 ppb	potassium (K).....	max. 1 ppb
beryllium (Be).....	max. 0,1 ppb	praseodymium (Pr).....	max. 0,1 ppb
bismuth (Bi).....	max. 0,1 ppb	rhений (Re).....	max. 0,1 ppb
boron (B).....	max. 1 ppb	rhodium (Rh).....	max. 0,5 ppb
cadmium (Cd).....	max. 0,5 ppb	rubidium (Rb).....	max. 0,1 ppb
calcium (Ca).....	max. 1 ppb	ruthenium (Ru).....	max. 0,5 ppb
cerium (Ce).....	max. 0,1 ppb	samarium (Sm).....	max. 0,1 ppb
cesium (Cs).....	max. 0,1 ppb	scandium (Sc).....	max. 0,1 ppb
chromium (Cr).....	max. 1 ppb	selenium (Se).....	max. 1 ppb
cobalt (Co).....	max. 0,5 ppb	silver (Ag).....	max. 0,1 ppb
copper (Cu).....	max. 0,5 ppb	sodium (Na).....	max. 1 ppb
dysprosium (Dy).....	max. 0,1 ppb	strontium (Sr).....	max. 0,1 ppb
erbium (Er).....	max. 0,1 ppb	tellurium (Te).....	max. 0,1 ppb
europium (Eu).....	max. 0,1 ppb	terbium (Tb).....	max. 0,1 ppb
gadolinium (Gd).....	max. 0,1 ppb	thallium (Tl).....	max. 0,1 ppb
gallium (Ga).....	max. 0,1 ppb	thorium (Th).....	max. 0,1 ppb
germanium (Ge).....	max. 0,1 ppb	thulium (Tm).....	max. 0,1 ppb
gold (Au).....	max. 0,1 ppb	tin (Sn).....	max. 0,5 ppb
hafnium (Hf).....	max. 0,1 ppb	titanium (Ti).....	max. 0,5 ppb
holmium (Ho).....	max. 0,1 ppb	tungsten (W).....	max. 0,1 ppb
indium (In).....	max. 0,1 ppb	uranium (U).....	max. 0,1 ppb
iron (Fe).....	max. 1 ppb	vanadium (V).....	max. 0,5 ppb
lanthanum (La).....	max. 0,1 ppb	ytterbium (Yb).....	max. 0,1 ppb
lead (Pb).....	max. 0,1 ppb	yttrium (Y).....	max. 0,1 ppb
lithium (Li).....	max. 0,1 ppb	zinc (Zn).....	max. 0,5 ppb
lutetium (Lu).....	max. 0,1 ppb	zirconium (Zr).....	max. 0,1 ppb
magnesium (Mg).....	max. 1 ppb		

**Packaging**
**Packaging Code**

500 ml  AC16170500  
 1 l  AC16171000  
 2,5 l  AC16172500

**Physical data**

- Density: 1,41 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: -41 °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.

**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 CO1 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