

Identification

HNO₃
 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. 69 %	iron (Fe).....	max. 0,00001 %
colour (Hazen).....	max. 10	lead (Pb).....	max. 0,000001 %
chlorides (Cl).....	max. 0,00005 %	lithium (Li).....	max. 0,000001 %
fluorides (F).....	max. 0,0001 %	magnesium (Mg).....	max. 0,00001 %
phosphates (as PO ₄).....	max. 0,00005 %	manganese (Mn).....	max. 0,000001 %
sulfates (SO ₄).....	max. 0,00005 %	molybdenum (Mo).....	max. 0,000002 %
aluminium (Al).....	max. 0,000005 %	nickel (Ni).....	max. 0,000002 %
arsenic (As).....	max. 0,000001 %	potassium (K).....	max. 0,00001 %
barium (Ba).....	max. 0,000001 %	silver (Ag).....	max. 0,000001 %
beryllium (Be).....	max. 0,000001 %	sodium (Na).....	max. 0,00005 %
bismuth (Bi).....	max. 0,00001 %	strontium (Sr).....	max. 0,000001 %
cadmium (Cd).....	max. 0,000001 %	thallium (Tl).....	max. 0,000005 %
calcium (Ca).....	max. 0,00001 %	titanium (Ti).....	max. 0,00001 %
chromium (Cr).....	max. 0,000002 %	vanadium (V).....	max. 0,000001 %
cobalt (Co).....	max. 0,000001 %	zinc (Zn).....	max. 0,000005 %
copper (Cu).....	max. 0,000001 %	zirconium (Zr).....	max. 0,00001 %
germanium (Ge).....	max. 0,000005 %	residue on ignition (as SO ₄).....	max. 0,0005 %
heavy metals (as Pb).....	max. 0,00002 %		

Packaging
Packaging Code

- 1 l  AC16001000
- 1 l  AC16001001
- 2,5 l  AC16002500
- 2,5 l  AC16002501

Physical data

- Density: 1,41 g/cm³
- 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/m³, 5,2 mg/m³
- 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