

Nitric acid, solution min. 60% w/w, for analysis, ExpertQ®, ISO

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. 60 %	iron (Fe).....	max. 0,2 ppm
chlorides (Cl).....	max. 0,00005 %	lead (Pb).....	max. 0,01 ppm
fluorides (F).....	max. 0,0001 %	lithium (Li).....	max. 0,02 ppm
phosphates (as PO ₄).....	max. 0,0001 %	magnesium (Mg).....	max. 0,1 ppm
sulfates (SO ₄).....	max. 0,0001 %	manganese (Mn).....	max. 0,01 ppm
aluminium (Al).....	max. 0,5 ppm	molybdenum (Mo).....	max. 0,02 ppm
arsenic (As).....	max. 0,01 ppm	nickel (Ni).....	max. 0,05 ppm
barium (Ba).....	max. 0,02 ppm	potassium (K).....	max. 0,1 ppm
beryllium (Be).....	max. 0,01 ppm	silver (Ag).....	max. 0,01 ppm
bismuth (Bi).....	max. 0,1 ppm	sodium (Na).....	max. 0,5 ppm
cadmium (Cd).....	max. 0,5 ppm	strontium (Sr).....	max. 0,01 ppm
calcium (Ca).....	max. 0,5 ppm	thallium (Tl).....	max. 0,05 ppm
chromium (Cr).....	max. 0,1 ppm	titanium (Ti).....	max. 0,1 ppm
cobalt (Co).....	max. 0,01 ppm	vanadium (V).....	max. 0,01 ppm
copper (Cu).....	max. 0,01 ppm	zinc (Zn).....	max. 0,05 ppm
germanium (Ge).....	max. 0,05 ppm	zirconium (Zr).....	max. 0,1 ppm
heavy metals (as Pb).....	max. 0,2 ppm	residue on ignition (as SO ₄).....	max. 0,0005 %

Physical data

- Density: 1,37 g/cm³
- 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:

- H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
H331: Toxic if inhaled.



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 C1 II • UN 2031 • NITRIC ACID
- IMDG: 8 II • UN 2031 • NITRIC ACID
- IATA/ICAO: 8 II • UN 2031 • NITRIC ACID
- PAX: 851
- CAO: 855
- 10°C - 30°C