

Nitric acid, solution min. 65% w/w, ISO, Reag. Ph Eur, for determinations with dithizone

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, in pharma industry.

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 ₄).....	max. 0,00002 %	lithium (Li).....	max. 0,01 ppm
sulfates (SO ₄).....	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	molybdenum (Mo).....	max. 0,01 ppm
barium (Ba).....	max. 0,01 ppm	nickel (Ni).....	max. 0,02 ppm
beryllium (Be).....	max. 0,01 ppm	platinum (Pt).....	max. 0,1 ppm
bismuth (Bi).....	max. 0,02 ppm	potassium (K).....	max. 0,1 ppm
cadmium (Cd).....	max. 0,01 ppm	silver (Ag).....	max. 0,01 ppm
calcium (Ca).....	max. 0,1 ppm	sodium (Na).....	max. 0,2 ppm
chromium (Cr).....	max. 0,02 ppm	strontium (Sr).....	max. 0,01 ppm
cobalt (Co).....	max. 0,01 ppm	thallium (Tl).....	max. 0,02 ppm
copper (Cu).....	max. 0,01 ppm	titanium (Ti).....	max. 0,02 ppm
gallium (Ga).....	max. 0,05 ppm	vanadium (V).....	max. 0,01 ppm
germanium (Ge).....	max. 0,02 ppm	zinc (Zn).....	max. 0,02 ppm
gold (Au).....	max. 0,05 ppm	zirconium (Zr).....	max. 0,02 ppm
heavy metals (as Pb).....	max. 0,2 ppm	residue on ignition (as SO ₄).....	max. 0,0003 %
		suitability for det. with dithizone.....	passes test

Physical data

- Density: 1,41 g/cm³
- 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