AC1602

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

Identification

HNO_3
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 %
chlorides (Cl)	max. 0,00005 %
fluorides (F)	max. 0,0001 %
phosphates (as PO4)	max. 0,0001 %
sulfates (SO_4)	max. 0,0001 %
aluminium (Al)	max. 0,5 ppm
arsenic (As)	max 0,01 ppm
barium (Ba)	max. 0,02 ppm
beryllium (Be)	max 0,01 ppm
bismuth (Bi)	max. 0,1 ppm
cadmium (Cd)	max. 0,5 ppm
calcium (Ca)	max. 0,5 ppm
chromium (Cr)	max. 0,1 ppm
cobalt (Co)	max 0,01 ppm
copper (Cu)	max 0,01 ppm
germanium (Ge)	max. 0,05 ppm
heavy metals (as Pb)	max. 0,2 ppm
iron (Fe)	max. 0,2 ppm
lead (Pb)	max 0,01 ppm
lithium (Li)	max. 0,02 ppm
magnesium (Mg)	max. 0,1 ppm
manganese (Mn)	max 0,01 ppm
molybdenum (Mo)	max. 0,02 ppm
nickel (Ni)	max. 0,05 ppm
potassium (K)	max. 0,1 ppm
silver (Ag)	max 0,01 ppm
sodium (Na)	max. 0,5 ppm
strontium (Sr)	max 0,01 ppm
thallium (Tl)	max. 0,05 ppm
titanium (Ti)	max. 0,1 ppm
vanadium (V)	max 0,01 ppm
zinc (Zn)	max. 0,05 ppm
zirconium (Zr)	max. 0,1 ppm
residue on ignition (as SO4)	max. 0,0005 %

Physical data

- Density: 1,37 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: -22 ºC
- Boiling point: ~ 120 ºC
- pH(20 ºC) < 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