AC1617

Nitric acid, 69%, Ultratrace®, ppb-trace analysis grade

Identification

HNO_3
M = 63,01 g/mol
CAS [7697-37-2]
EC number: 231-714-2
Taric code: 2808 00 00

Specifications

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

Physical data

- Density: 1,41 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: -41 ºC
- Boiling point: 122 ºC
- Vapour pressure: (20 ºC) 9,4 hPa
- pH(20 ºC) <1

Safety - GHS

Signal Word: Danger

Hazard Statements:

H272: May intensify fire; oxidiser.
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 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