

Identification

HNO₃

M = 63,01 g/mol

CAS [7697-37-2]

EC number: 231-714-2

Taric code: 2808 00 00

Specifications

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

- 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