

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).....	68,0 - 70,0 %	copper (Cu).....	max. 0,1 ppm
appearance.....	clear and colourless	heavy metals (as Pb).....	max. 0,2 ppm
colour (APHA).....	max. 10	iron (Fe).....	max. 0,2 ppm
chlorides (Cl).....	max. 0,5 ppm	lead (Pb).....	max. 0,1 ppm
sulfates (SO ₄).....	max. 1 ppm	residue on ignition.....	max. 5 ppm
arsenic (As).....	max. 0,01 ppm	sulphated ash.....	max. 0,001 %

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
- 15°C - 25°C