

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).....	64 - 66 %	copper (Cu).....	max. 0,5 ppm
chlorides (Cl).....	max. 0,0001 %	heavy metals (as Pb).....	max. 0,5 ppm
sulfates (SO ₄).....	max. 0,0002 %	iron (Fe).....	max. 1 ppm
arsenic (As).....	max. 0,05 ppm	lead (Pb).....	max. 0,5 ppm
calcium (Ca).....	max. 5 ppm	residue on ignition (as SO ₄).....	max. 0,0005 %

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