

Identification

HClO₄
M = 100,46 g/mol
CAS [7601-90-3]
EC number: 231-512-4
Taric code: 2811 19 80

Applications

analytical chemistry, laboratory reagent, oxidizing agent, in explosive compositions.

Specifications

assay (acidimetric).....	approx. 20 %	nitrogen compounds (as N).....	max. 0,005 %
chlorine (Cl).....	max. 0,0005 %	arsenic (As).....	max. 1 ppm
chlorates (ClO ₃).....	max. 0,005 %	iron (Fe).....	max. 5 ppm
chlorides (Cl).....	max. 0,001 %	lead (Pb).....	max. 5 ppm
phosphates and silicates (as SiO ₂).....	max. 0,002 %	nickel (Ni).....	max. 5 ppm
sulfates (SO ₄).....	max. 0,003 %	residue on ignition (as SO ₄).....	max. 0,01 %

Physical data

- Density: 1,12 g/cm³
- Solub. in water: (20 °C): miscible
- Refraction index: (n 20 °C/D) 1,347
- pH < 1
- Hygroscopic

Safety - GHS

Signal Word: Danger



Hazard Statements:

- H272: May intensify fire; oxidiser.
H314: Causes severe skin burns and eye damage.

Precautionary Statements:

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
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.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 8 CO1 II • UN 1802 • PERCHLORIC ACID
- IMDG: 8 II • UN 1802 • PERCHLORIC ACID
- IATA/ICAO: 8 II • UN 1802 • PERCHLORIC ACID
- PAX: F
- CAO: 813
- 10°C - 30°C