AC1755

Perchloric acid, solution 60% w/w, reagent grade, ACS, ISO

Identification

$HClO_4$
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)	60 - 62 %	heavy metals (as Pb)	max. 0,0001 %
colour (Hazen)	max. 10	iron (Fe)	max. 0,0001 %
insoluble in C2H5OH	max. 0,001 %	lead (Pb)	max. 0,000005 %
total nitrogen (as N)	max. 0,001 %	lithium (Li)	max. 0,000002 %
chlorides (Cl)	max. 0,0003 %	magnesium (Mg)	max. 0,00005 %
chlorates (ClO3)	max. 0,001 %	manganese (Mn)	max. 0,000002 %
phosphates and silicates (as SiO2)	max. 0,0005 %	molybdenum (Mo)	max. 0,000005 %
sulfates (SO4)	max. 0,001 %	nickel (Ni)	max. 0,00001 %
free chlorine (as Cl)	max. 0,00005 %	potassium (K)	max. 0,00001 %
aluminium (Al)	max. 0,000005 %	silver (Ag)	max. 0,00001 %
arsenic (As)	max. 0,000005 %	sodium (Na)	max. 0,00005 %
barium (Ba)	max. 0,000002 %	strontium (Sr)	max. 0,000002 %
beryllium (Be)	max. 0,000002 %	thallium (Tl)	max. 0,000005 %
bismuth (Bi)	max. 0,00001 %	titanium (Ti)	max. 0,00001 %
cadmium (Cd)	max. 0,000005 %	vanadium (V)	max. 0,000005 %
calcium (Ca)	max. 0,00005 %	zinc (Zn)	max. 0,00001 %
cobalt (Co)	max. 0,000005 %	zirconium (Zr)	max. 0,00001 %
copper (Cu)	max. 0,00001 %	substances reducing KMnO4	passes test
germanium (Ge)	max. 0,000005 %	residue on ignition (as SO4)	max. 0,003 %

Packaging

Packaging	Code
1 l	AC17551000
1 l	AC17551001
2,5 l	AC17552500
2,5 l	AC17552501

Physical data

- Density: 1,53 g/cm3
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 160 °C
- pH(H_2O, 20 °C) < 1
- Hygroscopic

Safety - GHS

Signal Word: Danger

Hazard Statements:

H271: May cause fire or explosion; strong oxidiser.
H314: Causes severe skin burns and eye damage.
H302: Harmful if swallowed.

Precautionary Statements:

P221: Take any precaution to avoid mixing with combustibles.
P283: Wear fire / flame resistant / retardant clothing.
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.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 1100 mg/kg (anhydrous substance)
- WGK: 1
- Poison class CH (Swiss): 1

Transport/storage

• ADR: 5.1 OC1 I • UN 1873 • PERCHLORIC ACID
• IMDG: 5.1 I • UN 1873 • PERCHLORIC ACID,
• IATA/ICAO: 5.1 I • UN 1873 • PERCHLORIC ACID,
• PAX: F
• CAO: 501