AC1761

Perchloric acid, 70%, Ultratrace®, ppb-trace analysis grade

Identification

$HClO_4$
M = 100,46 g/mol
CAS [7601-90-3]
EC number: 231-512-4
Taric code: 2811 19 80

Specifications

assay (acidimetric)	65 - 71 %	manganese (Mn)	max. 1 ppb
colour (Hazen)	max. 10	molybdenum (Mo)	max. 0,5 ppb
aluminium (Al)	max. 1 ppb	neodymium (Nd)	max. 0,5 ppb
antimony (Sb)	max. 0,5 ppb	nickel (Ni)	max. 1 ppb
arsenic (As)	max. 0,5 ppb	palladium (Pd)	max. 0,5 ppb
barium (Ba)	max. 1 ppb	platinum (Pt)	max. 0,5 ppb
beryllium (Be)	max. 0,5 ppb	potassium (K)	max. 1 ppb
bismuth (Bi)	max. 0,5 ppb	praseodymium (Pr)	max. 0,5 ppb
cadmium (Cd)	max. 1 ppb	rhodium (Rh)	max. 0,5 ppb
calcium (Ca)	max. 1 ppb	rubidium (Rb)	max. 0,5 ppb
cerium (Ce)	max. 0,5 ppb	samarium (Sm)	max. 0,5 ppb
cesium (Cs)	max. 0,5 ppb	scandium (Sc)	max. 0,5 ppb
cobalt (Co)	max. 0,5 ppb	silver (Ag)	max. 1 ppb
copper (Cu)	max. 0,5 ppb	sodium (Na)	max. 1 ppb
dysprosium (Dy)	max. 0,5 ppb	strontium (Sr)	max. 0,5 ppb
erbium (Er)	max. 0,5 ppb	tellurium (Te)	max. 0,5 ppb
europium (Eu)	max. 0,5 ppb	terbium (Tb)	max. 0,5 ppb
gadolinium (Gd)	max. 0,5 ppb	thallium (Tl)	max. 0,5 ppb
gallium (Ga)	max. 0,5 ppb	thorium (Th)	max. 1 ppb
gold (Au)	max. 0,5 ppb	thulium (Tm)	max. 0,5 ppb
holmium (Ho)	max. 0,5 ppb	tin (Sn)	max. 1 ppb
indium (In)	max. 0,5 ppb	titanium (Ti)	max. 1 ppb
iron (Fe)	max. 1 ppb	uranium (U)	max. 0,5 ppb
lanthanum (La)	max. 0,5 ppb	vanadium (V)	max. 0,5 ppb
lead (Pb)	max. 1 ppb	ytterbium (Yb)	max. 0,5 ppb
lithium (Li)	max. 0,5 ppb	yttrium (Y)	max. 0,5 ppb
lutetium (Lu)	max. 0,5 ppb	zinc (Zn)	max. 1 ppb
magnesium (Mg)	max. 1 ppb	zirconium (Zr)	max. 0,5 ppb

Physical data

- Density: 1,68 g/cm3
- Solub. in water: (20 °C): miscible
- Melting point: -18 °C
- Boiling point: 198,7 °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.
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: 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
- 10°C - 30°C