AC0780

Hydrochloric acid, 37%, Ultratrace®, ppb-trace analysis grade

Identification

HCl
M = 36,46 g/mol
CAS [7647-01-0]
EC number: 231-595-7
Taric code: 2806 10 00

Synonyms

Hydrochloric acid fuming, Muriatic acid, Hydrogen chloride solution

Specifications

assay (acidimetric)	34 - 37 %
colour (Hazen)	max. 10
bromides (Br)	max. 0,001 %
free chlorine (as Cl)	max. 0,00005 %
total phosphorus (P)	max. 10 ppb
total sulfur (S)	max. 300 ppb
aluminium (Al)	max. 1 ppb
antimony (Sb)	max. 0,5 ppb
arsenic (As)	max. 0,5 ppb
barium (Ba)	max. 0,1 ppb
beryllium (Be)	max. 0,1 ppb
bismuth (Bi)	max. 0,1 ppb
boron (B)	max. 1 ppb
cadmium (Cd)	max. 0,1 ppb
calcium (Ca)	max. 1 ppb
cerium (Ce)	max. 0,1 ppb
cesium (Cs)	max. 0,1 ppb
chromium (Cr)	max. 0,5 ppb
cobalt (Co)	max. 0,1 ppb
copper (Cu)	max. 0,5 ppb
dysprosium (Dy)	max. 0,1 ppb
erbium (Er)	max. 0,1 ppb
europium (Eu)	max. 0,1 ppb
gadolinium (Gd)	max. 0,1 ppb
gallium (Ga)	max. 0,1 ppb
gold (Au)	max. 0,5 ppb
hafnium (Hf)	max. 0,1 ppb
holmium (Ho)	max. 0,1 ppb
indium (In)	max. 0,1 ppb
iron (Fe)	max. 1 ppb
lanthanum (La)	max. 0,1 ppb
lead (Pb)	max. 0,1 ppb
lithium (Li)	max. 0,1 ppb
lutetium (Lu)	max. 0,1 ppb
magnesium (Mg)	max. 0,5 ppb
manganese (Mn)	max. 0,1 ppb
mercury (Hg)	max. 0,1 ppb
molybdenum (Mo)	max. 0,1 ppb
neodymium (Nd)	max. 0,1 ppb
nickel (Ni)	max. 0,5 ppb
niobium (Nb)	max. 0,1 ppb
potassium (K)	max. 1 ppb
praseodymium (Pr)	max. 0,1 ppb
rhenium (Re)	max. 0,1 ppb
rhodium (Rh)	max. 0,1 ppb
rubidium (Rb)	max. 0,1 ppb
ruthenium (Ru)	max. 0,1 ppb
samarium (Sm)	max. 0,1 ppb
scandium (Sc)	max. 0,1 ppb
selenium (Se)	max. 1 ppb
silver (Ag)	max. 1 ppb
sodium (Na)	max. 1 ppb
strontium (Sr)	max. 0,1 ppb
tellurium (Te)	max. 0,1 ppb
terbium (Tb)	max. 0,1 ppb
thallium (Tl)	max. 0,1 ppb
thorium (Th)	max. 0,1 ppb
thulium (Tm)	max. 0,1 ppb
tin (Sn)	max. 0,5 ppb
titanium (Ti)	max. 0,5 ppb
tungsten (W)	max. 0,1 ppb
uranium (U)	max. 0,1 ppb
vanadium (V)	max. 0,5 ppb
ytterbium (Yb)	max. 0,1 ppb
yttrium (Y)	max. 0,1 ppb
zinc (Zn)	max. 1 ppb
zirconium (Zr)	max. 0,1 ppb

Physical data

- Density: ~ 1,19 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: -28 ºC
- Boiling point: ~ 50 ºC
- Vapour pressure: (20 ºC) 190 hPa
- pH(20 ºC) < 1

Safety - GHS

Signal Word: Danger

Hazard Statements:

H314: Causes severe skin burns and eye damage.
H335: May cause respiratory irritation.

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 C1 II • UN 1789 • HYDROCHLORIC ACID
• IMDG: 8 II • UN 1789 • HYDROCHLORIC ACID
• IATA/ICAO: 8 II • UN 1789 • HYDROCHLORIC ACID
• PAX: 809
• CAO: 813
• 10°C - 30°C