

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
europeum (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

Packaging**Packaging Code**

500 ml  AC07800500
1 l  AC07801000
2,5 l  AC07802500

Physical data

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

P321: Specific treatment (see on this label).

P405: Store locked up.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- MAK: 2 ml/m³ , 3,0 mg/m³
- WGK: 1
- Poison class CH (Swiss): 2

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
- Store below 25°C