

# Hydrochloric acid, 37%, for analysis, ExpertQ®, ACS, ISO, max. 0,005 ppm Hg

## 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

## Applications

laboratory reagent, acidifying agent, in the production of chlorides, synthesis of organic products.

## Specifications

assay (acidimetric).....	36,5 - 38,0 %	germanium (Ge).....	max. 0,05 ppm
colour (Hazen).....	max. 10	heavy metals (as Pb).....	max. 1 ppm
bromides (Br).....	max. 50 ppm	iron (Fe).....	max. 0,2 ppm
phosphates (as PO <sub>4</sub> ).....	max. 0,05 ppm	lead (Pb).....	max. 0,02 ppm
sulfates (SO <sub>4</sub> ).....	max. 1 ppm	lithium (Li).....	max. 0,01 ppm
sulfites (SO <sub>3</sub> ) .....	max. 1 ppm	magnesium (Mg).....	max. 0,1 ppm
free chlorine (as Cl).....	max. 1 ppm	manganese (Mn).....	max. 0,01 ppm
aluminium (Al).....	max. 0,05 ppm	mercury (Hg).....	max. 0,005 ppm
ammonium (NH <sub>4</sub> ).....	max. 1 ppm	molybdenum (Mo).....	max. 0,02 ppm
antimony (Sb).....	max. 0,002 ppm	nickel (Ni).....	max. 0,02 ppm
arsenic (As).....	max. 0,01 ppm	potassium (K).....	max. 0,1 ppm
barium (Ba).....	max. 0,02 ppm	sodium (Na).....	max. 0,5 ppm
beryllium (Be).....	max. 0,02 ppm	strontium (Sr) .....	max. 0,01 ppm
bismuth (Bi).....	max. 0,1 ppm	thallium (Tl).....	max. 0,05 ppm
cadmium (Cd).....	max. 0,01 ppm	titanium (Ti).....	max. 0,1 ppm
calcium (Ca).....	max. 0,5 ppm	vanadium (V).....	max. 0,01 ppm
chromium (Cr).....	max. 0,02 ppm	zinc (Zn).....	max. 0,05 ppm
cobalt (Co).....	max. 0,01 ppm	zirconium (Zr).....	max. 0,1 ppm
copper (Cu).....	max. 0,01 ppm	residue on ignition.....	max. 5 ppm
		extractable organic substances.....	passes test (about 0,0005 %)

## Physical data

- Density: ~ 1,19 g/cm<sup>3</sup>
- Solut. 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.

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