

**Identification**

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


**Synonyms**

Hydrogen chloride solution, Muriatic acid

**Specifications**

assay (acidimetric).....	32 - 35 %	mercury (Hg).....	max. 50 ppt
aluminium (Al).....	max. 20 ppt	molybdenum (Mo).....	max. 10 ppt
antimony (Sb).....	max. 20 ppt	neodymium (Nd).....	max. 1 ppt
arsenic (As).....	max. 50 ppt	nickel (Ni).....	max. 20 ppt
barium (Ba).....	max. 10 ppt	niobium (Nb).....	max. 1 ppt
beryllium (Be).....	max. 10 ppt	potassium (K).....	max. 10 ppt
bismuth (Bi).....	max. 10 ppt	praseodymium (Pr).....	max. 1 ppt
boron (B).....	max. 100 ppt	rhenium (Re).....	max. 10 ppt
cadmium (Cd).....	max. 10 ppt	rhodium (Rh).....	max. 10 ppt
calcium (Ca).....	max. 10 ppt	rubidium (Rb).....	max. 10 ppt
cerium (Ce).....	max. 10 ppt	ruthenium (Ru).....	max. 10 ppt
cesium (Cs).....	max. 10 ppt	samarium (Sm).....	max. 1 ppt
chromium (Cr).....	max. 10 ppt	scandium (Sc).....	max. 10 ppt
cobalt (Co).....	max. 10 ppt	silver (Ag).....	max. 10 ppt
copper (Cu).....	max. 10 ppt	sodium (Na).....	max. 10 ppt
dysprosium (Dy).....	max. 1 ppt	strontium (Sr).....	max. 10 ppt
erbium (Er).....	max. 1 ppt	tellurium (Te).....	max. 1 ppt
europium (Eu).....	max. 1 ppt	terbium (Tb).....	max. 1 ppt
gadolinium (Gd).....	max. 1 ppt	thallium (Tl).....	max. 10 ppt
gallium (Ga).....	max. 10 ppt	thorium (Th).....	max. 1 ppt
gold (Au).....	max. 50 ppt	thulium (Tm).....	max. 1 ppt
hafnium (Hf).....	max. 10 ppt	tin (Sn).....	max. 20 ppt
holmium (Ho).....	max. 1 ppt	titanium (Ti).....	max. 10 ppt
indium (In).....	max. 1 ppt	tungsten (W).....	max. 10 ppt
iron (Fe).....	max. 10 ppt	uranium (U).....	max. 1 ppt
lanthanum (La).....	max. 1 ppt	vanadium (V).....	max. 10 ppt
lead (Pb).....	max. 10 ppt	ytterbium (Yb).....	max. 1 ppt
lithium (Li).....	max. 10 ppt	yttrium (Y).....	max. 1 ppt
lutetium (Lu).....	max. 10 ppt	zinc (Zn).....	max. 10 ppt
magnesium (Mg).....	max. 10 ppt	zirconium (Zr).....	max. 10 ppt
manganese (Mn).....	max. 10 ppt		

**Packaging**
**Packaging Code**

AC07810  AC07810250

500 ml  AC07810500

**Physical data**

- Density: ~ 1,19 g/cm<sup>3</sup>
- 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/m<sup>3</sup>, 3,0 mg/m<sup>3</sup>
- 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