

**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).....	36,5 - 38,0 %	free chlorine (as Cl).....	max. 4 ppm
Identification chloride.....	passes test	sulfates (SO <sub>4</sub> ).....	max. 20 ppm
Identification A (EP).....	passes test	sulfates (SO <sub>4</sub> ).....	passes test
Identification 1 (JP).....	passes test	sulfites (SO <sub>3</sub> ).....	passes test
appearance of solution.....	clear and colourless	arsenic (As).....	max. 1 ppm
bromine or chlorine.....	passes test	heavy metals (as Pb).....	max. 5 ppm
bromide or iodide.....	passes test	mercury (Hg).....	max. 0,04 ppm
free bromine or chlorine.....	passes test	residue on ignition (as SO <sub>4</sub> ).....	max. 0,008 %
		residue on evaporation.....	max. 0,01 %

**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:**

- H290: May be corrosive to metals.  
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
- Storage temperature:---