



## Hydrochloric acid

**Linear Molecular Formula:** HCl

**Molecular mass (g/mol):** 36.461

**1lit=**1.20 kg

**Cas number:** 7647-01-0

**Synonym:** Muriatic acid; Chlorohydric acid; Hydrogen chloride in aqueous solution

**Grade:** Extra pure

### Properties:

**Percent Purity:** 36.5 to 38.0%

**Physical Data:** clear, colorless to pale yellow liquid.

**Boiling Point:** >100 °C (lit.)

**Density:** 1.2 g/mL at 25 °C (lit.)

Appearance	passes test
Residue after Ignition	≤ 0.0001 %
Arsenic (As)	0.000002 %
Sulfate (SO <sub>4</sub> )	≤ 0.00001 %
Heavy Metal (as Pb)	0.02 ppm
Iron (Fe)	0.03 ppm.



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<b>Mercury (Hg)</b>	$\leq 0.0000001 \%$
<b>Lead (Pb)</b>	$\leq 0.0000001 \%$
<b>Ag (Silver)</b>	0.000001 %
<b>Au (Gold)</b>	$\leq 0.000001 \%$
<b>Ba(Barium)</b>	$\leq 0.0000001 \%$
<b>Be (Beryllium)</b>	$\leq 0.0000001 \%$
<b>Bi (Bismuth)</b>	0.000003 %
<b>Cd (Cadmium)</b>	0.000003 %
<b>Cr (Chromium)</b>	$\leq 0.0000001 \%$
<b>Co (Cobalt)</b>	0.000002 %
<b>Cs (Cesium)</b>	$\leq 0.0000001 \%$
<b>Cu (Copper)</b>	$\leq 0.0000001 \%$
<b>Ga (Gallium)</b>	$\leq 0.0000001 \%$
<b>Hg (Mercury)</b>	$\leq 0.0000001 \%$
<b>In (Indium)</b>	$\leq 0.000001 \%$
<b>Li (Lithium)</b>	$\leq 0.0000001 \%$
<b>Mn (Manganese)</b>	0.000002 %
<b>Ni (Nickel)</b>	0.000012 %



**D**  
**S**  
**F**  
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<b>Pd (Palladium)</b>	$\leq 0.0000001 \%$
<b>Pt (Platinum)</b>	$\leq 0.0000001 \%$
<b>Sr (Strontium)</b>	$\leq 0.0000001 \%$
<b>Tl (Thallium)</b>	$\leq 0.0000001 \%$
<b>U (Uranium)</b>	$\leq 0.0000001 \%$
<b>V (Vanadium)</b>	$\leq 0.0000001 \%$
<b>Zn (Zinc)</b>	$\leq 0.0000001 \%$
<b>Zr (Zirconium)</b>	$\leq 0.0000001 \%$

**HAZARDOUS:**



**Hazard Statements:**

May be corrosive to metals

Causes severe skin burns and eye damage