

## PURE HYDROCHLORIC ACID 37%

**CHEMICAL NAME** Hydrochloric acid

**CAS NUMBER** 7647-01-0

**TECHNICAL REQUIREMENTS**

Appearance.....transparent, colorless to yellow liquid

Hydrogen chloride, % (m/m) .....min. 37

Available chlorine,% (mg/kg) .....max. 1

Iron (Fe), % (mg/kg).....max. 0.5

Sulphuric acid as  $\text{SO}_4^{2-}$  (mg/kg).....max. 2

Arsenic (As)\*, (mg/kg).....max. 0.05

Heavy metals precipitated with  $\text{H}_2\text{S}$  as  $\text{Pb}^{2+}$ , % (mg/kg).....max. 2

Calcium (Ca)\*, % (mg/kg)..... max. 0,4

Cadmium (Cd)\*, % (mg/kg)..... max. 0,05

Chromium (Cr)\*, % (mg/kg)..... max. 0,05

Copper (Cu)\*, % (mg/kg)..... max. 0,05

Mercury (Hg)\*, % (mg/kg) ..... max. 0.1

Magnesium (Mg)\*, % (mg/kg).....max. 0,1

Nickel (Ni)\*, % (mg/kg)..... max. 0,05

Lead (Pb)\*, % (mg/kg)..... max. 0,05

Antimony (Sb)\*, % (mg/kg)..... max. 0,1

Selenium (Se)\*, % (mg/kg) ..... max. 0,1

Zinc (Zn)\*, % (mg/kg) .....max. 0,05

Total organic carbon (TOC)\*, % (mg/kg)..... max. 5

Residue on ignition in  $600^\circ\text{C}$  (As)\*, (mg/kg)..... max. 5

\* parameter determined on customer's request

**GENERAL DATA\*\***

Solubility in water..... unlimited

Other solvents.....ethanol, ethyl eter

Density at the temperature  $20^\circ\text{C}$ , g/ml.....1,18-1,19

Boiling point,  $^\circ\text{C}$ .....above 50

Solidification point,  $^\circ\text{C}$ .....below -25

Molecular mass, g/mol.....36,5

cannot

\*\* These informative data are not technical requirements and form the basis for any claims.

## **APPLICATION**

Industrial/consumer use as water treatment chemical.  
Intermediate: production of chemicals, soaps & detergents,  
pharmaceuticals, cosmetics, plant protection products.  
Industrial/professional use as pH-regulator, flocculant,  
precipitant, neutralization agent.  
Use as washing & cleaning product.  
Use as a laboratory chemical.  
Use in welding and soldering products