

PURE HYDROCHLORIC ACID 37%

CHEMICAL NAME	Hydrochloric acid
CAS NUMBER	7647-01-0
TECHNICAL REQUIREMENTS	<p>Appearance.....transparent, colorless to yellow liquid</p> <p>Hydrogen chloride, % (m/m)min. 37</p> <p>Available chlorine*, mg/kg.....max.1</p> <p>Iron (Fe), mg/kg.....max. 0,5</p> <p>Sulfates as SO₄²⁻*,mg/kg.....max. 2</p> <p>Arsenic(As)*, mg/kg.....max. 0.05</p> <p>Heavy metals precipitated with H₂S as:</p> <p>Pb²⁺, mg/kg.....max. 2</p> <p>Calcium (Ca)* , mg/kg max. 0,4</p> <p>Cadmium (Cd)* , mg/kg max. 0,05</p> <p>Chromium (Cr)* , mg/kg.....max. 0,05</p> <p>Copper (Cu)* , mg/kgmax. 0,05</p> <p>Mercury (Hg)* , mg/kgmax. 0,1</p> <p>Magnesium (Mg)* , mg/kgmax. 0,1</p> <p>Nickel (Ni)* , mg/kg.....max. 0,05</p> <p>Lead (Pb)* , mg/kgmax. 0,05</p> <p>Antimony (Sb)*, mg/kg.....max. 0,1</p> <p>Selenium (Se)*, mg/kgmax. 0,1</p> <p>Zinc (Zn)*, mg/kgmax. 0,05</p> <p>Total organic carbon (TOC)*, mg/kg.....max. 5</p> <p>Residue on ignition in 600 °C,mg/kg.....max.5</p> <p>* parameter determined on customer's request</p>

GENERAL DATA

Solubility in water.....	unlimited
Other solvents.....	ethanol, ethyl ether
Density at the temperature 20 °C, g/ml.....	1,18 -1,19
Boiling point, °C.....	above 50
Solidification point, °C.....	below -25
Molecular mass,.....	36,5

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.