

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 SO₄²⁻ (mg/kg).....max. 2
 Arsenic (As)*, (mg/kg).....max. 0.05
 Heavy metals precipitated with H₂S as Pb²⁺, % (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°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°C, g/ml.....1,18-1,19
 Boiling point, °C.....above 50
 Solidification point, °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