

# HYDROCHLORIC ACID FOR FOOD GRADE INDUSTRY 33%

**CHEMICAL NAME** Hydrochloric acid

**CAS NUMBER** 7647-01-0

**TECHNICAL REQUIREMENTS**

Appearance	transparent, colorless to yellow liquid
Hydrogen chloride, % (m/m)	min. 33
Available chlorine*, % (mg/kg)	max. 5
Iron (Fe)*, (mg/kg)	max. 5
Sulphuric acid as SO <sub>4</sub> <sup>2-</sup> , % (mg/kg)	max. 90
Arsenic (As)*, (mg/kg)	max. 0,05
Heavy metals precipitated with H <sub>2</sub> S as Pb <sup>2+</sup> , (mg/kg)	max. 5

\* parameter determined on customer's request

**GENERAL DATA\*\***

Solubility in water	unlimited
Other solvents	ethanol, ethyl ether
Density at the temperature 20°C, g/ml	1,16-1,17
Boiling point, °C	above 70
Solidification point, °C	below -35
Molecular mass, g/mol	36,5

\*\* These informative data are not technical requirements and cannot 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.