

# HYDROCHLORIC ACID MIN. 33%

**CHEMICAL NAME** Hydrochloric acid

**CAS** 7647-01-0

**TECHNICAL REQUIREMENTS**

Appearance .....	transparent, colorless to yellow liquid
Hydrogen chloride [% (m/m)] .....	min. 33
Iron (Fe) [mg/kg] .....	max. 5
Arsenic (As) [mg/kg] .....	max. 0.05
Free chlorine [mg/kg] .....	max. 5
Sulphuric acid as SO <sub>4</sub> <sup>2-</sup> [mg/kg] .....	max. 100
Heavy metals precipitated by hydrogen sulphide as Pb <sup>2+</sup> [mg/kg] .....	max. 5
Organic compounds .....	max. 5

\* parameter determined on customer's request

**INFORMATIVE DATA\*\***

Solubility in water .....	unlimited
Other solvents .....	ethanol, ethyl ether
Density at 20°C [g/cm <sup>3</sup> ] .....	1.16 – 1.17
Initial boiling point [°C] .....	above 80
Solidification point [°C] .....	below -40
Molecular weight [g/mol] .....	36,5
Odour .....	pungent, suffocating

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

**USE**

Water treatment agent.  
 Intermediate in the production of chemicals, soaps and detergents, pharmaceuticals, cosmetics, plant protection products.  
 PH regulator, flocculant, neutralizing agent.  
 Application as a washing and cleaning product.  
 Application as a laboratory reagent.  
 Application in welding and soldering products.