

SYNTHETIC HYDROCHLORIC ACID 33%

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: 33</p> <p>Iron (Fe), mg/kg.....max.5</p> <p>Available chlorine, mg/kg.....max. 10</p> <p>Sulfates as SO₄²⁻, mg/kg.....max. 100</p> <p>Arsenic (As), mg/kg.....max. 0,05</p> <p>Heavy metals precipitated with H₂S as Pb²⁺, mg/kg.....max. 10</p>
GENERAL DATA	<p>Molar mass, g/mol.....36,5</p> <p>Solubility in water..... unlimited</p> <p>Other solvents.....ethanol, ethyl ether</p> <p>Density at the temperature 20°C, g/ml.....1,16-1,18</p> <p>Odour..... pungent, suffocating</p> <p>Boiling point, °C.....above 60</p> <p>Solidification point, °C.....below -30</p>
APPLICATION	<p>Used in the energy industry for the regeneration of ion exchangers, in industrial water treatment processes for pH regulation, in the production of industrial chemicals, agrochemicals, household chemicals, descaling and disinfectants. Used in galvanizing and zinc-plating processes, tanning, textile industry, production of biofuels. , oils and lubricants, manufacturing of chemicals in animal breeding as well as in manufacturing of lubricants and functional fluids.</p>