

HYDROCHLORIC ACID 33%

CHEMICAL NAME	Hydrochloric acid
CAS NUMBER	7647-01-0
TECHNICAL REQUIREMENTS	<p>Appearance transparent, yellowish liquid</p> <p>Hydrogen chloride, % (m/m) Min. 33 (ASTM E224-08)</p> <p>Available chlorine*, mg/kg..... Max. 5 (LA/2185)</p> <p>Iron (Fe)*, mg/kg Max. 5 (PN-ISO 6685:2002)</p> <p>Sulphuric acid as SO₄^{2-*}, mg/kg Max. 100 (LA/2138)</p> <p>Arsenic (As)*, mg/kg Max. 0,05 (ICP)</p> <p>Heavy metals precipitated with H₂S as Pb₂⁺*, mg/kg Max. 5 (LA/2111)</p> <p>* parameter determined on customer's request</p>
GENERAL DATA	<p>Molecular weight, g/mol.....36,5</p> <p>Solubility in water..... unlimited</p> <p>Density at 20°C, g/ml.....1,16</p> <p>Odour..... pungent, suffocating</p> <p>Solidification point, °C.....below -35</p> <p>Breakdown temperature, °C.....above 75</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>