

HYDROCHLORIC ACID 33%

CHEMICAL NAME Hydrochloric acid

CAS NUMBER 7647-01-0

**TECHNICAL
REQUIREMENTS**

Appearance transparent, yellowish liquid
 Hydrogen chloride, % (m/m) Min. 33
 (ASTM E224-08)
 Available chlorine*, mg/kg Max. 5
 (LA/2185)
 Iron (Fe)*, mg/kg Max. 5
 (PN-ISO 6685:2002)
 Sulphuric acid as SO₄²⁻*, mg/kg Max. 100
 (LA/2138)
 Arsenic (As)*, mg/kg Max. 0,05
 (ICP)
 Heavy metals precipitated
 with H₂S as Pb²⁺*, mg/kg Max. 5
 (LA/2111)
 * parameter determined on customer's request

GENERAL DATA

Molecular weight, g/mol 36,5
 Solubility in water unlimited
 Density at 20°C, g/ml 1,16
 Odour pungent, suffocating
 Solidification point, °C below -35
 Breakdown temperature, °C above 75

APPLICATION

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.