Hydrochloric acid, min. 37%, a.p.

CHEMICAL NAME	Hydrochloric acid
CAS NUMBER	7647-01-0
TECHNICAL REQUIREMENTS	Appearance..... transparent, colorless to yellow liquid Hydrogen chloride, % (m/m) ..... min: 37 Iron (Fe^{2+}), % (m/m)……..…..…max. 0.00005 Free chlorine,% (m/m) ……..max. 0.0001 Sulphuric acid as SO_4^{2-} % (m/m)……..…...max. 0.0002 Arsenic, % (m/m)……...…max. 0.000005 Heavy metals precipitated by hydrogen sulphide as Pb^{2+}, % (m/m)……..…..max. 0.0002 Ca ,% (m/m)……..…..……..... max. 0,00004 Cd ,% (m/m)……..……..…..... max. 0,000005 Cr ,% (m/m)……..……..……..... max. 0,000005 Cu ,% (m/m)……..……..……..……..... max. 0,000005 Hg ,% (m/m) ……..……..…….. max. 0,00001 Mg ,% (m/m)……..……..……...…max. 0,00001 Ni ,% (m/m)……..……..……..…..…… max. 0,000005 Pb ,% (m/m)……...……..…… max. 0,000005 Sb,% (m/m)……..……..……..…… max. 0,00001 Se,% (m/m) ……..……...……..… max. 0,00001 Zn,% (m/m) ……..……..……..…… max. 0,000005 Remains after roasting at the temperature 600 ^{0}C,% (m/m)……...…….. max. 0,0005 TOC,% (m/m)……..…… max. 0,0005
GENERAL DATA	Molecular weight, g/mol.....36,5 Solubility in water ..... unlimited Density at 20 °C, g/ml..... 1,18 Odour ..... pungent, suffocating Solidification point, °C……..……...below -25 Breakdown temperature, °C ..... above 75

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APPLICATION

Hydrochloric acid min 37%, reagent, applies, among others in chemical methods of quantitative analysis, e.g. alkacymetry, manganometry, in neutralization reactions, in weight analysis. It is a component of royal water used for digestion, in qualitative analysis, e.g. for the detection of silver cations, as well as in many basic reconnaissance reactions in analytical chemistry, consist in in the precipitation of characteristic deposits. Also is a valuable solvent in chemical analysis, also used in geology for the analysis of elements, in the chemical analysis of waters and soils.

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