



Material	20252.295
Material description	Hydrochloric acid 37%
Grade	AnalaR NORMAPUR Reag. Ph. Eur.
CAS Number	7647-01-0
Molecular formula	HCl
Molecular mass	36.46

## Characteristics

## Specifications

Assay	35.0 - 38.0 %
Appearance	Clear colourless liquid
Appearance of solution	Passes test Ph.Eur.
Identification A	Passes test Ph.Eur.
Identification B	Passes test Ph.Eur.
Colouration	≤ 10 APHA
Density (20/4)	1.174 - 1.193
Evaporation residue	≤ 100 ppm
Free chlorine	≤ 1 ppm
Heavy metals (as Pb)	≤ 2 ppm
Ignition residue (SO <sub>4</sub> )	≤ 5 ppm
Reducing substances (as O)	≤ 4 ppm
Br (Bromide)	≤ 5 ppm
NH <sub>4</sub> (Ammonium)	≤ 1 ppm
PO <sub>4</sub> (Phosphate)	≤ 0.5 ppm
SO <sub>3</sub> (Sulphite)	≤ 1 ppm
SO <sub>4</sub> (Sulphate)	≤ 1 ppm
Al (Aluminium)	≤ 0.2 ppm
As (Arsenic)	≤ 0.01 ppm
Ba (Barium)	≤ 0.02 ppm
Be (Beryllium)	≤ 0.01 ppm
Bi (Bismuth)	≤ 0.02 ppm
Ca (Calcium)	≤ 1 ppm
Cd (Cadmium)	≤ 0.01 ppm
Co (Cobalt)	≤ 0.01 ppm
Cr (Chromium)	≤ 0.07 ppm
Cu (Copper)	≤ 0.1 ppm
Fe (Iron)	≤ 0.3 ppm

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For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user.



Characteristics	Specifications
Ge (Germanium)	≤ 0.02 ppm
Hg (Mercury)	≤ 0.01 ppm
K (Potassium)	≤ 0.1 ppm
Li (Lithium)	≤ 0.01 ppm
Mg (Magnesium)	≤ 0.1 ppm
Mn (Manganese)	≤ 0.01 ppm
Mo (Molybdenum)	≤ 0.02 ppm
Na (Sodium)	≤ 0.5 ppm
Ni (Nickel)	≤ 0.04 ppm
Pb (Lead)	≤ 0.02 ppm
Sr (Strontium)	≤ 0.01 ppm
Ti (Titanium)	≤ 0.02 ppm
Tl (Thallium)	≤ 0.02 ppm
V (Vanadium)	≤ 0.02 ppm
Zn (Zinc)	≤ 0.5 ppm
Zr (Zirconium)	≤ 0.02 ppm
Conforms to Reag. Ph.Eur.	Passes test

## Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

Isabelle Habay, Head of Laboratory - Briare  
 VWR International S.A.S.; Z.I. de Vaugereau; FR-45250  
 Briare; France

