# Specification

1.00317.0000 Hydrochloric acid fuming 37% for analysis EMSURE® ACS,ISO, Reag. Ph Eur

| | Specification | |
|---|---|---|
| Assay (alkalimetric) | 36.5 - 38.0 | % |
| Identity | passes test | |
| Color | ≤ 10 | Hazen |
| Appearance | passes test | |
| Appearance of solution | passes test | |
| Bromide (Br) | ≤ 50 | ppm |
| Free chlorine (Cl) | ≤ 1 | ppm |
| Phosphate ($PO_4$) | ≤ 0.5 | ppm |
| Sulfate ($SO_4$) | ≤ 1.0 | ppm |
| Sulfite ($SO_3$) | ≤ 0.5 | ppm |
| Heavy metals (as Pb) | ≤ 1 | ppm |
| Ag (Silver) | ≤ 0.020 | ppm |
| Al (Aluminium) | ≤ 0.150 | ppm |
| As (Arsenic) | ≤ 0.010 | ppm |
| Au (Gold) | ≤ 0.050 | ppm |
| B (Boron) | ≤ 0.100 | ppm |
| Ba (Barium) | ≤ 0.010 | ppm |
| Be (Beryllium) | ≤ 0.010 | ppm |
| Bi (Bismuth) | ≤ 0.050 | ppm |
| Ca (Calcium) | ≤ 0.500 | ppm |
| Cd (Cadmium) | ≤ 0.010 | ppm |
| Co (Cobalt) | ≤ 0.010 | ppm |
| Cr (Chromium) | ≤ 0.010 | ppm |
| Cu (Copper) | ≤ 0.010 | ppm |
| Fe (Iron) | ≤ 0.100 | ppm |
| Ga (Gallium) | ≤ 0.050 | ppm |
| Ge (Germanium) | ≤ 0.020 | ppm |
| Hg (Mercury) | ≤ 0.010 | ppm |
| K (Potassium) | ≤ 0.100 | ppm |
| Li (Lithium) | ≤ 0.010 | ppm |
| Mg (Magnesium) | ≤ 0.300 | ppm |
| Mn (Manganese) | ≤ 0.010 | ppm |
| Mo (Molybdenum) | ≤ 0.010 | ppm |
| $NH_4$ (Ammonium) | ≤ 1 | ppm |
| Na (Sodium) | ≤ 0.500 | ppm |
| Ni (Nickel) | ≤ 0.020 | ppm |
| Pb (Lead) | ≤ 0.010 | ppm |
| Pt (Platinum) | ≤ 0.100 | ppm |
| Sn (Tin) | ≤ 0.200 | ppm |
| Sr (Strontium) | ≤ 0.010 | ppm |
| Ti (Titanium) | ≤ 0.020 | ppm |

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| | | |
|---|---|---|
| Tl (Thallium) | ≤ 0.020 | ppm |
| V (Vanadium) | ≤ 0.010 | ppm |
| Zn (Zinc) | ≤ 0.300 | ppm |
| Zr (Zirconium) | ≤ 0.020 | ppm |
| Residue on ignition (as $SO_4$) | ≤ 3 | ppm |
| Non volatile matter | ≤ 10 | ppm |

Conforms to the ACS specification for general use.
Expiry date : see product label

Christian Herrmann
Responsible laboratory manager quality control

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