

Hydrochloric acid, 37%, for analysis, ExpertQ®, ACS, ISO, Reag. Ph

Identification

HCL

M = 36,46 g/mol CAS [7647-01-0] EC number: 231-595-7 Taric code: 2806 10 00

Synonyms

Hydrochloric acid fuming, Muriatic acid, Hydrogen chloride solution

Applications

laboratory reagent, acidifying agent, in the production of chlorides, synthesis of organic products.

Specifications

assay (acidimetric). Identification A (EP) Identification chloride appearance of solution colour (Hazen) bromides (Br) phosphates (PO ₄)	. passes test . passes test clear and colourless . max. 10 . max. 50 ppm
sulfates (SO ₄)	
sulfites (SO3) free chlorine (as Cl)	. max. 0,5 ppm max. 1 ppm . max. 0,05 ppm .max. 1 ppm .max. 0,01 ppm .max. 0,01 ppm .max. 0,01 ppm .max. 0,01 ppm .max. 0,05 ppm
boron (B)	
cadmium (Cd)	. max. 0,3 ppm . max. 0,01 ppm
cobalt (Co)copper (Cu)	
gallium (Ga)	• • • • • • • • • • • • • • • • • • • •
germanium (Ge)	.max. 0,02 ppm

gold (Au)	max. 0,05 ppm
heavy metals	max. 1 ppm
iron (Fe)	max. 0,1 ppm
lead (Pb)	max. 0,01 ppm
lithium (Li)	max. 0,01 ppm
magnesium (Mg)	
manganese (Mn)	max. 0,01 ppm
mercury (Hg)	max. 0,01 ppm
molybdenum (Mo)	max. 0,01 ppm
nickel (Ni)	max. 0,02 ppm
platinum (Pt)	max. 0,1 ppm
potassium (K)	max. 0,1 ppm
silver (Ag)	max. 0,02 ppm
sodium (Na)	max. 0,3 ppm
strontium (Sr)	max. 0,01 ppm
thallium (TI)	max. 0,02 ppm
tin (Sn)	max. 0,2 ppm
titanium (Ti)	max. 0,02 ppm
vanadium (V)	max. 0,01 ppm
zinc (Zn)	max. 0,1 ppm
zirconium (Zr)	max. 0,02 ppm
residue on ignition	
residue on evaporation	·
extractable organic substances	passes test

Physical data

- Density: ~ 1,19 g/cm3
- Solub. in water: (20 °C): miscible
- Melting point: -28 °C
- Boiling point: ~ 50 °C
- Vapour pressure: (20 °C) 190 hPa
- pH(20 °C) < 1

Safety - GHS

Signal Word: Danger

Hazard Statements:

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

Precautionary Statements:

P260: Do not breathe dust / fume / gas / mist / vapours / spray.

 $P303 + P361 + P353: IF\ ON\ SKIN\ (or\ hair): Remove\ /\ Take\ off\ immediately\ all\ contaminated\ clothing.\ Rinse\ skin\ with\ water\ /\ shower.$

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor / physician.

P405: Store locked up.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.









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Transport/storage

- ADR: 8 C1 II UN 1789 HYDROCHLORIC ACID
- IMDG: 8 II UN 1789 HYDROCHLORIC ACID
- IATA/ICAO: 8 II UN 1789 HYDROCHLORIC ACID
- PAX: 809
- CAO: 813
- 10°C 30°C