

Hydrochloric acid, solution 25% w/w, for analysis, ExpertQ®, ISO

Identification

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

Synonyms

Hydrogen chloride solution

Applications

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

Specifications

assay (acidimetric).....	min. 25 %
colour (Hazen).....	max. 10
free chlorine (as Cl).....	max. 0,00005 %
bromides (Br).....	max. 0,005 %
phosphates (as PO ₄).....	max. 0,00005 %
sulfates (SO ₄).....	max. 0,0001 %
sulfites (SO ₃)	max. 0,0001 %
aluminium (Al).....	max. 0,05 ppm
ammonium (NH ₄).....	max. 0,0001 %
arsenic (As).....	max 0,01 ppm
barium (Ba).....	max. 0,02 ppm
beryllium (Be).....	max. 0,02 ppm
bismuth (Bi).....	max. 0,1 ppm
cadmium (Cd).....	max 0,01 ppm
calcium (Ca).....	max. 0,5 ppm
chromium (Cr).....	max. 0,02 ppm
cobalt (Co).....	max 0,01 ppm
copper (Cu).....	max. 0,02 ppm

germanium (Ge).....	max. 0,05 ppm
heavy metals (as Pb).....	max. 1 ppm
iron (Fe).....	max. 0,2 ppm
lead (Pb).....	max. 0,02 ppm
lithium (Li).....	max 0,01 ppm
magnesium (Mg).....	max. 0,1 ppm
manganese (Mn).....	max 0,01 ppm
molybdenum (Mo).....	max. 0,02 ppm
nickel (Ni).....	max. 0,02 ppm
potassium (K).....	max. 0,1 ppm
sodium (Na).....	max. 0,5 ppm
strontium (Sr)	max 0,01 ppm
thallium (Tl).....	max. 0,05 ppm
titanium (Ti).....	max. 0,1 ppm
vanadium (V).....	max 0,01 ppm
zinc (Zn).....	max. 0,05 ppm
zirconium (Zr).....	max. 0,1 ppm
residue on ignition.....	max. 0,0005 %

Physical data

- Density: ~ 1,12 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -70 °C
- Boiling point: 107 °C
- Vapour pressure: (20 °C) 12 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.

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