

Hydrochloric acid, solution 25% w/w, reagent grade, ISO

Identification

HCl
M = 36,46 g/mol
CAS [7647-01-0]
EC number: 231-595-7
Tatic 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 %	germanium (Ge).....	max. 0,000005 %
colour (Hazen).....	max. 10	heavy metals (as Pb).....	max. 0,0001 %
free chlorine (as Cl).....	max. 0,00005 %	iron (Fe).....	max. 0,00002 %
bromides (Br).....	max. 0,005 %	lead (Pb).....	max. 0,000002 %
phosphates (as PO ₄).....	max. 0,00005 %	lithium (Li).....	max. 0,000001 %
sulfates (SO ₄).....	max. 0,0001 %	magnesium (Mg).....	max. 0,00001 %
sulfites (SO ₃).....	max. 0,0001 %	manganese (Mn).....	max. 0,000001 %
aluminium (Al).....	max. 0,000005 %	molybdenum (Mo).....	max. 0,000002 %
ammonium (NH ₄).....	max. 0,0001 %	nickel (Ni).....	max. 0,000002 %
arsenic (As).....	max. 0,000001 %	potassium (K).....	max. 0,00001 %
barium (Ba).....	max. 0,000002 %	sodium (Na).....	max. 0,00005 %
beryllium (Be).....	max. 0,000002 %	strontium (Sr).....	max. 0,000001 %
bismuth (Bi).....	max. 0,00001 %	thallium (Tl).....	max. 0,000005 %
cadmium (Cd).....	max. 0,000001 %	titanium (Ti).....	max. 0,00001 %
calcium (Ca).....	max. 0,00005 %	vanadium (V).....	max. 0,000001 %
chromium (Cr).....	max. 0,000002 %	zinc (Zn).....	max. 0,000005 %
cobalt (Co).....	max. 0,000001 %	zirconium (Zr).....	max. 0,00001 %
copper (Cu).....	max. 0,000002 %	residue on ignition.....	max. 0,0005 %

Packaging**Packaging Code**

AC07670  AC07671000
2,5 l  AC07672500
2,5 l  AC0767005P
2,5 l  AC0767005P

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.
P321: Specific treatment (see on this label).
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- MAK: 2 ml/m³, 3,0 mg/m³
- WGK: 1
- Poison class CH (Swiss): 2

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
- Store below 25°C