

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, Muriatic acid

Applications

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

Specifications

assay (acidimetric).....	35,0 - 39,0 %	appearance of solution.....	clear and colourless
Identification A (EP).....	passes test	free chlorine (as Cl).....	max. 4 ppm
Identification chloride.....	passes test	sulfates (SO ₄).....	max. 20 ppm
		residue on evaporation.....	max. 0,01 %

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.

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