

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

Specifications

assay (acidimetric).....	32 - 35 %	manganese (Mn).....	max. 10 ppt
aluminium (Al).....	max. 20 ppt	mercury (Hg).....	max. 50 ppt
antimony (Sb).....	max. 20 ppt	molybdenum (Mo).....	max. 10 ppt
arsenic (As).....	max. 50 ppt	neodymium (Nd).....	max. 1 ppt
barium (Ba).....	max. 10 ppt	nickel (Ni).....	max. 20 ppt
beryllium (Be).....	max. 10 ppt	niobium (Nb).....	max. 1 ppt
bismuth (Bi).....	max. 10 ppt	potassium (K).....	max. 10 ppt
boron (B).....	max. 100 ppt	praseodymium (Pr).....	max. 1 ppt
cadmium (Cd).....	max. 10 ppt	rhenium (Re).....	max. 10 ppt
calcium (Ca).....	max. 10 ppt	rhodium (Rh).....	max. 10 ppt
cerium (Ce).....	max. 10 ppt	rubidium (Rb).....	max. 10 ppt
cesium (Cs).....	max. 10 ppt	ruthenium (Ru).....	max. 10 ppt
chromium (Cr).....	max. 10 ppt	samarium (Sm).....	max. 1 ppt
cobalt (Co).....	max. 10 ppt	scandium (Sc).....	max. 10 ppt
copper (Cu).....	max. 10 ppt	silver (Ag).....	max. 10 ppt
dysprosium (Dy).....	max. 1 ppt	sodium (Na).....	max. 10 ppt
erbium (Er).....	max. 1 ppt	strontium (Sr).....	max. 10 ppt
europium (Eu).....	max. 1 ppt	tellurium (Te).....	max. 1 ppt
gadolinium (Gd).....	max. 1 ppt	terbium (Tb).....	max. 1 ppt
gallium (Ga).....	max. 10 ppt	thallium (Tl).....	max. 10 ppt
gold (Au).....	max. 50 ppt	thorium (Th).....	max. 1 ppt
hafnium (Hf).....	max. 10 ppt	thulium (Tm).....	max. 1 ppt
holmium (Ho).....	max. 1 ppt	tin (Sn).....	max. 20 ppt
indium (In).....	max. 1 ppt	titanium (Ti).....	max. 10 ppt
iron (Fe).....	max. 10 ppt	tungsten (W).....	max. 10 ppt
lanthanum (La).....	max. 1 ppt	uranium (U).....	max. 1 ppt
lead (Pb).....	max. 10 ppt	vanadium (V).....	max. 10 ppt
lithium (Li).....	max. 10 ppt	ytterbium (Yb).....	max. 1 ppt
lutetium (Lu).....	max. 10 ppt	yttrium (Y).....	max. 1 ppt
magnesium (Mg).....	max. 10 ppt	zinc (Zn).....	max. 10 ppt
		zirconium (Zr).....	max. 10 ppt

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