

# Hydrochloric acid, solution 0,5 mol/l (0,5 N)

## Identification

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

## Applications

analytical chemistry, titrant in volumetric analysis.

## Specifications

factor..... 0,999 - 1,001  
uncertainty  $\pm$  0,001

1 ml = 0,018235 g HCl

This solution was analysed using a certified reference material (tris(hydroxymethyl)-aminomethane).  
The certified reference material is ISO 17034 accredited, measured according to ISO/IEC 17025 and traceable to the International System of Units by means of a Standard Reference Material from NIST: SRM<sup>®</sup> 723 (Tris(hydroxymethyl)aminomethane (HOCH<sub>2</sub>)<sub>3</sub>CNH<sub>2</sub> (Acidimetric Standard)).

## Physical data

- Density: 1,01 g/cm<sup>3</sup>
- pH< 1

## Safety - GHS

Signal Word: Danger

### Hazard Statements:

H314: Causes severe skin burns and eye damage.



### 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 III • UN 1789 • HYDROCHLORIC ACID
- IMDG: 8 III • UN 1789 • HYDROCHLORIC ACID
- IATA/ICAO: 8 III • UN 1789 • HYDROCHLORIC ACID
- PAX: 819
- CAO: 821
- 10°C - 30°C