

# Hydrochloric acid, solution 2 mol/l (2 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 = 0,07292 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® 723 (Tris(hydroxymethyl)aminomethane (HOCH<sub>2</sub>)<sub>3</sub>CNH<sub>2</sub> (Acidimetric Standard)).

## Physical data

- Density: ~ 1,03 g/cm<sup>3</sup>
- pH(20 °C) < 1

## Safety - GHS

Signal Word: Warning

### Hazard Statements:

- H290: May be corrosive to metals.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.



### Precautionary Statements:

- P261: Avoid breathing dust / fume / gas / mist / vapours / spray.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.  
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.

## 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: 819
- CAO: 821
- 10°C - 30°C