

NEXTChem Process Analyzers, Inc.

On-Line Hydrochloric Acid

Industry: Semiconductor and Chemical

Sample Filtration is eliminated, in samples with high solids. For samples requiring dilution ≤ 2 mm particles can easily be handled. For non-dilution samples ≤ 6 mm particles pose no problem. No other system can match this rugged design.

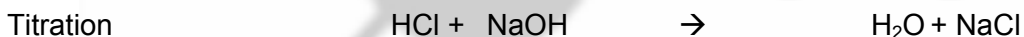
NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with ± 0.001 mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



Analysis of Hydrochloric Acid

The concentration of hydrochloric acid is determined by an acid/base titration. The titrant is sodium hydroxide. The endpoint is found using a pH glass electrode.

Reactions:



Reagents:

0.5 N Sodium Hydroxide

Sensor:

Glass pH Electrode 120 mm

Detection Limits / Interferences:

Dilution: 300,000 – 25 ppm
Non-Dilution: 240 – 0 ppm (lower detection limit 1 ppm)
Interferences: Other Acids

nextchem@nextchem-analyzers.com
1900 North Austin Ave., Suite 101 Chicago, IL 60639 USA
Office Phone +773-637-NEXT(6398) Office Fax +773-637-7260