

NEXTChem Process Analyzers, Inc.

On-Line Caustic

Industry: 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 Caustic

Caustic is determined by an acid/base titration. The single inflection point is used to determine the concentration of caustic.

Reactions:

Titration $\text{HCl} + \text{NaOH} \rightarrow \text{H}_2\text{O} + \text{NaCl}$

Reagents:

0.5 N Hydrochloric Acid

Sensor:

pH glass Electrode

Detection Limits / Interferences:

Dilution: 590,500 – 11 ppm
Non-Dilution: 113 – 0 ppm (lower detection limit 1 ppm)
Interferences: Other Bases

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