

# **NEXTChem Process Analyzers, Inc.**

## ***On-Line Phosphoric Acid***

### ***Industry: Semiconductor and Chemical***

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Sample Filtration is eliminated, in samples with high solids. For samples requiring dilution  $\leq 2$ mm particles can easily be handled. For non-dilution samples  $\leq 6$ 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  $\pm 0.001$  mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



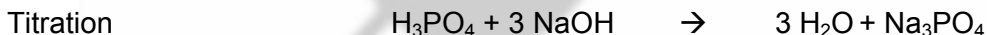
### ***Analysis of Phosphoric Acid***

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

#### ***Reactions:***

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#### ***Reagents:***

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0.5 N Sodium Hydroxide

#### ***Sensor:***

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Glass pH Electrode 120 mm

#### ***Detection Limits / Interferences:***

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Dilution: 339,500 – 67 ppm  
Non-Dilution: 646 – 0 ppm (lower detection limit 3 ppm)  
Interferences: Other Acids

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