

# **NEXTChem Process Analyzers, Inc.**

## **On-Line Nitrate**

### **Industry: Wastewater and Chemical**

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.

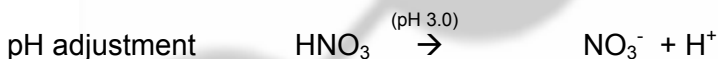
NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with  $\pm 0.001$  mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



### **Analysis of Nitrate**

Nitrate is determined using an ion selective electrode. The measurement technique used is standard addition.

### **Reactions:**



### **Reagents:**

0.1 N Sulfuric Acid / 0.1 M Ammonium Sulfate, 500 ppm Nitrate Standard

### **Sensor:**

Nitrate Ion Selective Electrode

### **Detection Limits / Interferences**

Dilution:        15,500 – 20 ppm  
Non-Dilution: 40 – 0 ppm    (lower detection limit 0.8 ppm)  
Interferences:  $\text{Cl}^-$ ,  $\text{NO}_2^-$

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