

NEXTChem Process Analyzers, Inc.

On-Line Ascorbic Acid

Industry: Chemical and Pharmaceutical

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.

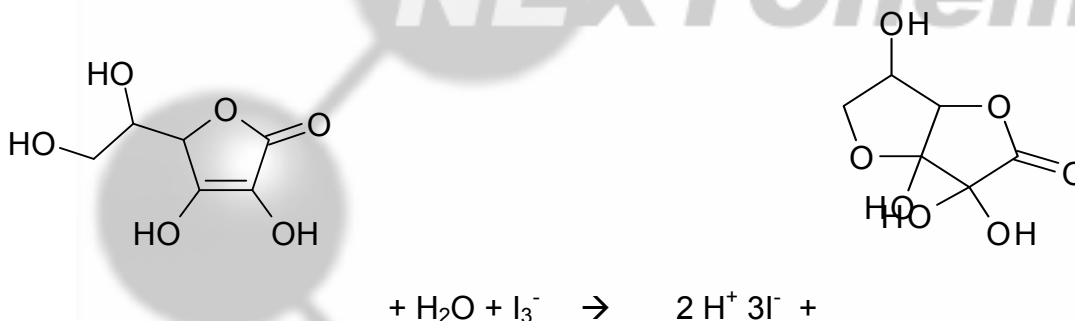
NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with ± 0.001 mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



Analysis of Ascorbic Acid

Ascorbic Acid is determined by an iodimetric titration. The single inflection point is used to determine the concentration of ascorbic acid.

Reactions:



Reagents:

0.10 N Iodate-Iodide, 1 M Sulfuric Acid

Sensor:

ORP 120 mm Electrode

Detection Limits / Interferences:

Dilution: 609,000 – 121 ppm
Non-Dilution: 1159 – 0 ppm (lower detection limit 5 ppm)
Interferences: Other Redox Agents

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