

NEXTChem Process Analyzers, Inc.

On-Line Titanium (III)

Industry: Metal Finishing, Aerospace, and Chemical

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

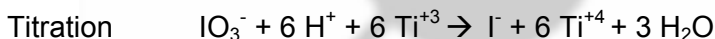
NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with ± 0.001 mL reproducibility. Errors caused by electrode drift are removed by the use of sophisticated calculations.



Analysis of Titanium (III)

Titanium (III) concentration is found by a redox titration. The endpoint is determined with a platinum redox electrode.

Reactions:



Reagents:

0.1 M Potassium Iodate, 6 M Nitric Acid

Sensor:

Platinum Redox Electrode

Detection Limits / Interferences:

Dilution: 164,500 – 32 ppm
Non-Dilution: 313 – 0 ppm (lower detection limit 2 ppm)
Interferences: Other Redox Agents

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