

NEXTChem Process Analyzers, Inc.

On-Line Chromium (VI)

Industry: Wastewater, Metal Finishing and 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.

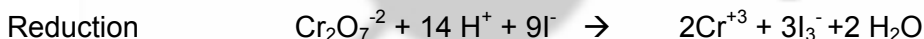
NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with ± 0.001 mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



Analysis of Chromium (VI)

Chromium (VI) is determined by an iodometric titration. The inflection point of the analysis is used to determine the concentration of chromium (VI).

Reactions:



Reagents:

1M Potassium Iodide w/ 0.1 N Sodium Hydroxide, 0.1 M Sodium Thiosulfate, 6 N Sulfuric Acid

Sensor:

ORP Electrode 120 mm

Detection Limits / Interferences:

Dilution: 178,500 – 35 ppm

Non-Dilution: 339 – 0 ppm (lower detection limit 2 ppm)

Interferences: Other Redox Agents

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