

NEXTChem Process Analyzers, Inc.

On-Line EDTA

Industry: Water/Waste Water, 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 EDTA

EDTA is determined by the titration with copper sulfate. The endpoint is found with a copper (ISE) Ion Selective Electrode.

Reactions:



Reagents:

1 M Ammonium Hydroxide, 0.05 N Copper Sulfate w/0.05 M Ammonium Sulfate

Sensor:

Copper Ion Selective Electrode

Detection Limits / Interferences:

Dilution: 175,000 – 35 ppm
Non-Dilution: 333 – 0 ppm (lower detection limit 2 ppm)
Interferences: Cl⁻, Fe⁺³, Fe⁺², Al⁺³, Cu⁺², Zn⁺²

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