

NEXTChem Process Analyzers, Inc.

On-Line Mercaptides and Sulfides

Industry: Petrochemical

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

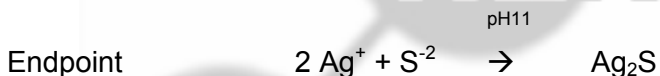
NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with ± 0.001 mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



Analysis of Mercaptides and Sulfide

Mercaptides and Sulfides are determined by alcoholic silver nitrate. The endpoint is found with a silver/sulfide ion selective electrode.

Reactions:



Reagents:

5.0 M sodium hydroxide, 1.0 M ammonium hydroxide, 0.01 M silver nitrate w/isopropyl alcohol, methanol

Sensor:

Silver/Sulfide Ion Selective Electrode

Detection Limits / Interferences:

Dilution: 112,000 – 22 ppm
Non-Dilution: 213 – 0 ppm (lower detection limit 1 ppm)
Interferences: PO_4^{-2} , Br^- , I^- , CN^-

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