

NEXTChem Process Analyzers, Inc.

On-Line Hydrogen Sulfide

Industry: Wastewater, Pulp and Paper, and PetroChemical

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.

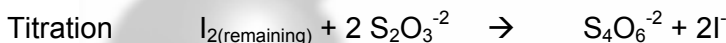
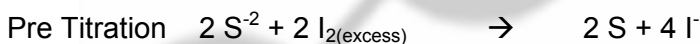
NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with ± 0.001 mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



Analysis of Hydrogen Sulfide

Hydrogen Sulfide is determined by an iodometric back titration of the excess iodine. The inflection point of the analysis is used to determine with an ORP Electrode. Before each analysis the iodine solution is standardized with thiosulfate.

Reactions:



Reagents:

6 N Sulfuric Acid, 0.1 M Iodine Standard Solution, 0.01 N Sodium Thiosulfate

Sensor:

ORP Electrode 120 mm

Detection Limits / Interferences:

Dilution: 224,000 – 44 ppm

Non-Dilution: 426 – 0 ppm (lower detection limit 1 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