

NEXTChem Process Analyzers, Inc.

On-Line Non-Ionic Surfactant

Industry: Metal Pre-Treatment/Finishing Semiconductor, and Beverage

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.

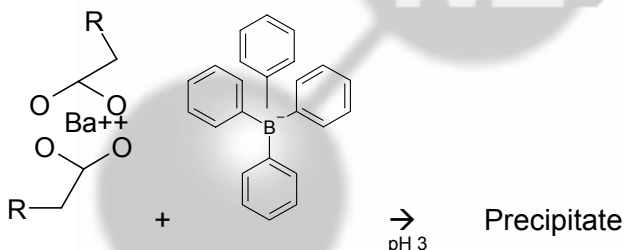
NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with ± 0.001 mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



Analysis of Non-Ionic Surfactant

Non-Ionic Surfactant is determined by ion selective titration. The endpoint is found with a surfactant electrode.

Reactions:



Reagents:

0.1 N Hydrochloric Acid, 0.2 M Barium Chloride, 0.008 M Sodium Tetraphenylborate, 0.2 M Sodium Dodecyl Sulfate (soak electrode between analysis)

Sensor:

Surfactant Electrode 120 mm

Detection Limits / Interferences:

Dilution: 8875 – 90 ppm
Non-Dilution: 180 – 0 ppm (lower detection limit 2 ppm)
Interferences: Other Surfactants

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