Thermo
ELECTRON CORPORATION

Potentiometric Titration Application Notes Applications Log # **604**

Overview The Anionic surfactant (DDBSA) in cleaner was determined by the first derivative technique using Orion 0.05 Hyamine 1622 standard as the titrant. The Orion 960 Autochemistry system determines the endpoint and calculates the sample concentration.

Industry Detergent

Species Measured Anionic Surfactant

Sample Cleaner

Sample Size 2.0g

Typical Concentration 15% w/w

Technique # 6 First Derivative

Electrode Surfactant elect 9342BN. D-J Ref electrode 900200

Solutions Inner/outer fill solution 900002, 810007. Hyamine 654201. Na lauryl sulfate 654202

Sample Prep 200mL flask: 2mL MeOH, sample, fill w/DI . Pipet 20mL add 90mL DI. And adjust pH to 10 w/ 0.1M NaOH. Titrate.

Statistics

# of Trials	3	***Mean***	14.50%w/w	***%CV***	0.69

Analysis Time 2.5minute(s)

Comments Rinse the electrodes, stirrer, and dispenser probe between measurements with deionized water.