

Overview The concentration of alkalinity was determined by both the pH read and Preset Endpoint techniques utilizing Hydrochloric acid as the titrant. The Orion 960 Titrator PLUS determines the endpoint and calculates the sample concentration.

Industry Mining and Metal Manufacturing

Species Measured Alkalinity

Sample Oxidizing Agent

Sample Size 1.0g

Typical Concentration 0.99% w/w

Technique # 8 pH read, Preset Endpoint

Electrode Ross Sure-Flow Combination pH 810200

Solutions 0.1M HCl; electrode fill 810007

Sample Prep Accurately weigh 10.0 g of oxidizing agent into a 1500 mL beaker and fill a 1 L volumetric flask with deionized water to the mark. Add the 1000 mL of deionized water to the 1500 mL beaker containing the sample. Stir solution thoroughly prior to analysis. Take a 100 mL aliquot of the sample solution and place in a 150 mL beaker. Sample is now ready for analysis.

Statistics

# of Trials	5	Mean	0.995%w/w	%CV	1.40
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Analysis Time 2.9minute(s)

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