

TIQ-95042enL

Application Memo

Measurement of Aluminum Concentration in Aluminum Chloride Liquid

Industry Inorganic chemical industry

Instrument Automatic potentiometric titrator

Measurement method Photometric titration

Standards

1. Overview

The sample to which 0.02 mol/L EDTA and sodium acetate buffer were added was heated to just before boiling, and then allowed to cool to room temperature. After adding pure water, sodium acetate buffer and the Xylenol orange indicator, it is titrated with the 0.02mol/L zinc solution. The endpoint is the maximum inflexion on the titration curve. The aluminum is calculated from the titration volume of the zinc solution.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier PTA)

Electrode Photometric sensor

Interference filter (530nm)

3. Reagents

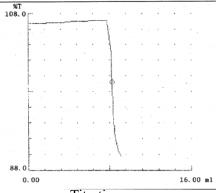
Titrant 0.02mol/L zinc solution

Solvent Pure water

Additive Sodium acetate buffer, 0.02 mol/L EDTA

Indicator Xylenol orange

4. Example



r	iter Cor	ıc.
(r	-	
) (1	nL) (%)
804 8.3	3096 0.19°	78
804 8.0	0.19	91
304 7.9	0.19	98
	0.19	89
	0.00	10
	0	51
	804 8.3 804 8.0	804 8.3096 0.196 804 8.0749 0.196

-Titration curve-

Please feel free to contact us for any further information.

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