



Application Memo Total Free Acid in Plating Solution

Industry Inorganic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Redox titration

1. Overview

After adding potassium oxalate solution to the diluted sample, total free acid concentration is measured by titration with 1mol/L sodium hydroxide solution. The endpoint is the maximum inflexion on the titration curve. The total free acid concentration is calculated from the titration volume of the sodium hydroxide solution.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode pH glass electrode

Ceramic reference electrode

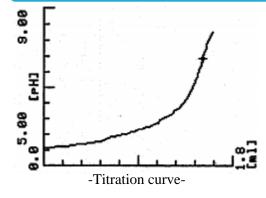
Temperature compensation electrode

3. Reagents

Titrant 1mol/L sodium hydroxide solution

Additive Potassium oxalate solution (1g/4mL H₂O)

4. Example



-Measurement results-			
	Sample	Titer	Conc.
	(mL)	(mL)	(g/L)
1	1.0	1.5167	212.3
2	1.0	1.5320	214.5
3	1.0	1.5360	215.0
Average			214.0
SD			1.4
RSD(%)			0.67

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