

TIQ-97063enL

Application Memo Silver in Silver Plating Solution

Industry Inorganic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Precipitation titration

1. Overview

After adding pure water and 15% sodium sulfide solution to the sample and heated, the precipitate is filtered. Silver concentration in the precipitate dissolved in concentrated nitric acid and water is measured by titration with 0.1mol/L ammonium thiocyanate solution. The endpoint is the maximum inflexion on the titration curve. The silver concentration is calculated from the titration volume of the titrant.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode Silver electrode

Mercury sulfate reference electrode

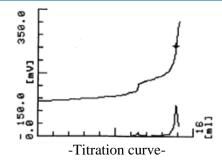
3. Reagents

Titrant 0.1mol/L ammonium thiocyanate solution

Solvent Pure water

Indicator 15%(w/v) sodium sulfide solution, Concentrated nitric acid

4. Example



-Measurement results-			
	Sample	Titer	Conc.
	(mL)	(mL)	(g/L)
1	5.0	14.2680	30.79
2		14.2854	30.83
Average			30.81

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