

## Application Memo

# Potassium Cyanide in Silver Plating Solution

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	

### 1. Overview

Potassium cyanide (KCN) in silver plating solution is measured by titration with 0.01mol/L silver nitrate after potassium iodide is added the sample. Titration goes up to the endpoint, which is the maximum inflection on the titration curve. The concentration of potassium cyanide is calculated from the titration volume of silver nitrate.

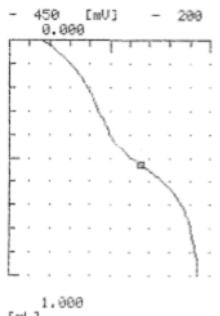
### 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Silver electrode Mercury sulfate reference electrode

### 3. Reagents

Titrant	0.01mol/L silver nitrate solution
Solvent	Pure water
Additive	10% potassium iodide

### 4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Concentration (g/L)
1	5.0	0.5286	0.1374
2	5.0	0.5233	0.1361
3	5.0	0.5182	0.1347
Average			0.1361
SD			0.0014
RSD(%)			0.99

Please feel free to contact us for any further information.

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