

Application Memo

Boric Acid in Luster Nickel Plating Solution

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Neutralization titration

1. Overview

After adding saturated potassium ferrocyanide solution, pure water and mannitol to the sample, boric acid concentration is measured by titration with 0.1mol/L sodium hydroxide solution. The endpoint is the maximum inflexion on the titration curve. The boric acid concentration is calculated from two data of titration volumes of the sodium hydroxide at the endpoints.

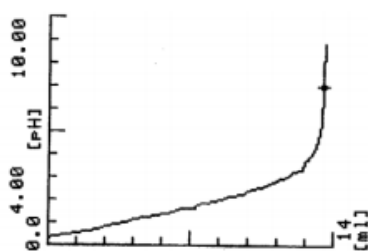
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode Ceramic reference electrode Temperature compensation electrode

3. Reagents

Titrant	0.1mol/L sodium hydroxide solution
Solvent	Pure water
Additive	Saturated potassium ferrocyanide solution, Mannitol

4. Example



Titration curve-

-Measurement results-

	Sample (mL)	Titer (mL)	Conc. (g/L)
1	2.0	13.5789	41.96
2	2.0	13.4175	41.46
Average			41.71

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 <Contact> Kyoto Electronics Manufacturing Co., Ltd.
 Overseas Sales & Marketing Sect.
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