KYOTO ELECTRONICS MANUFACTURING CO.,LTD.

TIQ-99173enL

Application Memo

Determination oh Potassium Dihydrogen Phosphate

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	GB/T 1274, GB 1886.337

1. Overview

Potassium dihydrogen phosphate is determined by titration with 1mol/L sodium hydroxide after the sample is added with sodium chloride and dissolved in water.
Titration goes up to the endpoint which is the maximum inflexion on the titration curve.
The concentration of potassium dihydrogen phosphate is calculated from the titration volume of sodium hydroxide.

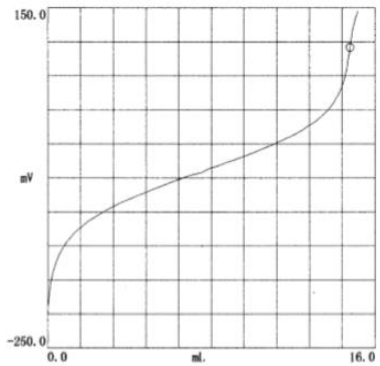
2. Apparatus

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

3. Reagents

Titrant	1mo1/L sodium hydroxide (f = 1.003)
Solvent	Pure water, Sodium chloride

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Concentration (%)
1	2.0163	14.7831	100.077
2	2.0043	14.6382	99.690
3	2.0048	14.6760	99.923
Average			99.897
SD			0.195
RSD(%)			0.195

Please feel free to contact us for any further information.

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