

Application Memo

Purity of Potassium Hydrogen Phthalate

Industry	inorganic chemical industry
Instrument	automatic potentiometric titrator
Measurement method	acid-base titration
Standards	JIS K 8809

1. Overview

According to the standard testing method JIS K 8809-2014 Potassium hydrogen phthalate (Reagent), the test liquid is measured by titration with 1mol/L sodium hydroxide after the sample is diluted with water.

The endpoint is the maximum inflexion on the titration curve. The purity of potassium hydrogen phthalate is calculated from the titration volume of sodium hydroxide.

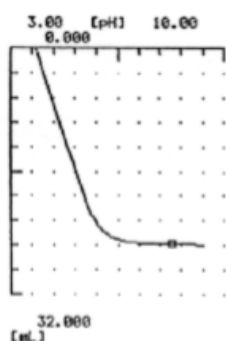
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier: STD)
Electrode	Combined glass electrode Temperature compensation electrode

3. Reagents

Titrant	1 mol/L sodium hydroxide
Solvent	Pure water

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Purity (%)
1	5.002	25.3986	98.82
2	5.055	25.6515	98.76
3	4.978	25.2317	98.65
Average			98.74
SD			0.09
RSD(%)			0.09

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