KYOTO ELECTRONICS MANUFACTURING CO.,LTD.

TIC-98002enL

Application Memo

Quantitative Determination of Benzoic Acid

Industry	Organic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

After dissolving the sample in dimethilformamide, it is titrated with 0.1mol/L sodium methoxide solution. The endpoint is the maximum inflexion on the titration curve. The benzoic acid concentration is calculated from the titration volume of the sodium methoxide.

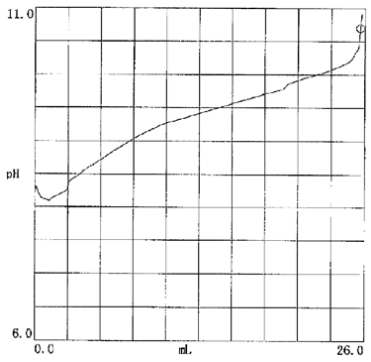
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L sodium methoxide
Solvent	Dimethilformamide

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Concentration (%)
1	0.3074	26.0169	103.4
2	0.3058	25.8490	103.2
3	0.3033	25.6514	103.3
Average			103.3
SD			0.0
RSD(%)			0.06

Please feel free to contact us for any further information.

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