KYOTO ELECTRONICS MANUFACTURING CO.,LTD.

TIA-98009enL

Application Memo

Total Acid Number of Kerosene

Industry	Petrochemicals
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

After adding the solvent to the sample, potassium hydroxide concentration is measured by titration with the titrant. The endpoint is the maximum inflexion on the titration curve. The potassium hydroxide concentration as the total acid number is calculated from the titration volume of the titrant.

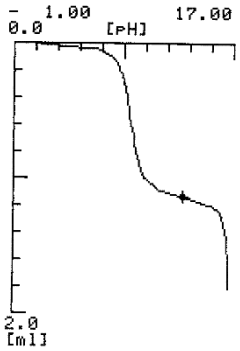
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L potassium hydroxide (2-propanol solution)
Solvent	Toluene, 2-propanol and water

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Conc. (mg/g)
1	0.9961	1.1444	6.445
2	1.0064	1.1297	6.297
3	1.0071	1.1415	6.363
Average			6.369
SD			0.074
RSD(%)			1.2

Please feel free to contact us for any further information.

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