

Application Memo

Acid Number of Liquid Polymer

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

1. Overview

The acid number of liquid polymer is measured by titration with a 0.1mol/L potassium hydroxide in ethanol solution after the sample is dissolved in a mixture of xylene and 2-propanol. The endpoint is determined by the maximum inflexion on the titration curve. The acid number is calculated from the titration volume of potassium hydroxide.

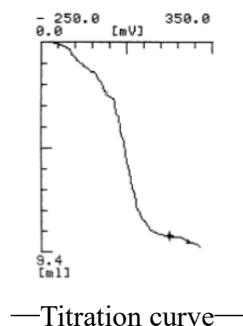
2. Apparatus

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

3. Reagents

Reagent	0.1mol/L potassium hydroxide in ethanol solution
Solvent	Xylene, 2-propanol

4. Example



—Measurement results—

	Sample (g)	Titer (mL)	Acid number (mg/g)
1	2.0055	8.7428	24.456
2	2.0085	8.9650	25.040
3	1.9988	8.8706	24.897
Average			24.798
SD			0.304
RSD(%)			1.23

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