

Application Memo

Acid Number of Acrylic Resin

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

1. Overview

The acid number of acrylic resin 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.

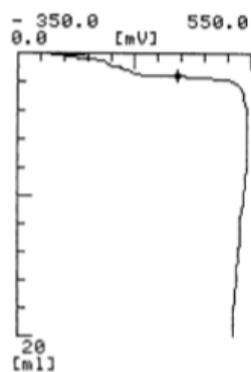
2. Apparatus

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



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Acid number (mg/g)
1	2.0002	1.7300	7.5985
2	1.9996	1.7255	7.5810
3	2.0023	1.7232	7.5607
Average			7.5801
SD			0.0189
RSD(%)			0.250

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