

Application Memo

Acid Number of Adhesive

Industry	Paint & Adhesive
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

Acid number of adhesive is measured by the titration with 0.01 mol/L sodium hydroxide solution after adding acetone and a small amount of water to dissolve the sample. The inflection point on the titration curve by discoloration of the indicator is defined as the end point.

The acid number is obtained by the consumption (mL) of 0.01 mol/L sodium hydroxide solution per 1 g sample.

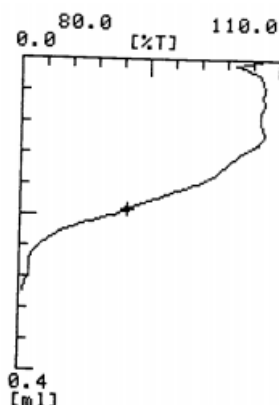
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier PTA)
Electrode	Photometric sensor Interference filter (530nm)

3. Reagents

Titrant	0.01mol/L sodium hydroxide
Solvent	Acetone, Pure water
Indicator	Bromophenol blue

4. Example



-Titration curve-

-Measurement results-			
	Sample (g)	Titer (mL)	Acid number (mL/g)
1	3.0752	0.1928	0.06270
2	3.0067	0.2005	0.06668
3	3.0705	0.1829	0.05957
Average			0.06298
SD			0.00356
RSD(%)			5.65

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