

## Application Memo

# Acid Degree of Adhesive

Industry	Paint, Adhesive
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration (Nonaqueous)
Standards	

## 1. Overview

The acid degree of adhesive is measured by titration with 0.1mol/L sodium hydroxide ethanolic solution after acetone and pure water are added to the sample. The endpoint is determined by the color change of the bromophenol blue indicator on the titration curve. The acid degree of the sample is calculated from the titration volume of the sodium hydroxide ethanolic solution at the endpoint.

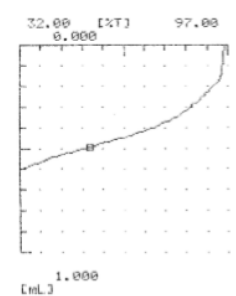
## 2. Apparatus

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

## 3. Reagents

Titrant	0.1mol/L sodium hydroxide ethanolic solution
Solvent	Pure water
Additive	Acetone
Indicator	Bromophenol blue (BPB)

## 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Acid degree (mL/g)
1	3.0076	0.4967	0.1651
2	3.0074	0.4989	0.1659
3	3.0059	0.4962	0.1651
Average			0.1654
SD			0.0005
RSD(%)			0.3

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