

## Application Memo

# Acid Number of Carboxylate Ester

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

## 1. Overview

The test sample is dissolved in mixture of toluene, 2-propanol and water, and titrated with the 0.1mol/L potassium hydroxide 2-propanol solution up to the endpoint which is automatically detected on the titration curve. The acid number is calculated from the titration volume of potassium hydroxide up to the endpoint.

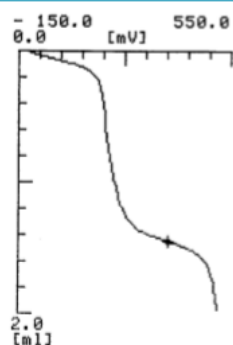
## 2. Apparatus

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 + Pure water (500mL+495mL+5mL)

## 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Acid number (%)
1	5.0131	1.4657	1.4368
2	5.0012	1.4585	1.4321
3	5.0118	1.4656	1.4370
Average			1.4353
SD			0.0028
RSD(%)			0.19

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