

TIR-99359enL

Application Memo

Total Base Number of Carboxylate Ester

Industry Organic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Acid-base titration

Standards

1. Overview

After adding mixture of chlorobenzene and acetic acid to the sample, it is titrated with 0.1mol/L perchloric acid (acetate acid solution). The endpoint is determined by the maximum inflexion point on the titration curve. The potassium hydroxide concentration is calculated as total base number from the titration volume of perchloric acid.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode pH glass electrode

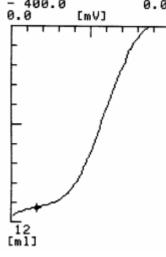
Double junction reference electrode Temperature compensation electrode

3. Reagents

Titrant 0.1mol/L perchloric acid (acetic acid solution)

Solvent Chlorobenzene + Acetic acid (2+1)

4. Example



-Measurement results-			
	Sample	Titer	Concentration
	(g)	(mL)	(mg/g)
1	2.5061	11.1375	24.907
2	2.5048	11.1137	24.866
3	2.5019	11.0803	24.820
Average			24.864
SD			0.044
RSD(%)			0.18

-Titration curve-

Please feel free to contact us for any further information.

< Contact > Kyoto Electronics Manufacturing Co., Ltd.

Overseas Sales & Marketing Sect.

http://www.kyoto-kem.com/en/contact/form.php

