

TIR-00068enL

Application Memo

Acid Number of Phenol Resin

Industry Organic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Acid-base titration

Standards

1. Overview

The acid number of phenol resin is measured by titration with 0.1mol/L potassium hydroxide (ethanol) solution after the sample is dissolved in a solvent. The endpoint is determined by the maximum inflexion point on the titration curve. The acid number is calculated from the titration volume of potassium hydroxide.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier PTA)

Electrode Photometric sensor

Interference filter (530nm)

3. Reagents

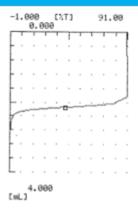
Titrant 0.5 mo1/L potassium hydroxide (ethanol)

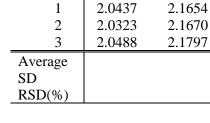
Solvent Ethanol, Toluene

Reagent 0.1mol/L potassium hydroxide solution

Indicator Phenolphthalein indicator

4. Example





Sample

(g)

—Measurement results—

Titer

(mL)

Acid

number

(mg/g)

29.839

30.029

29.962 29.943

0.096

0.32

—Titration curve—

Please feel free to contact us for any further information.

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Overseas Sales & Marketing Sect.

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