

Application Memo

Acid Number of Octanol

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

1. Overview

Acid number of octanol is measured by titration with the 0.1mol/L potassium hydroxide ethanolic solution after the sample is added with the indicator. The endpoint is determined by the inflexion of the color change of the indicator on the titration curve. The acid number is calculated from the titration volume of potassium hydroxide.

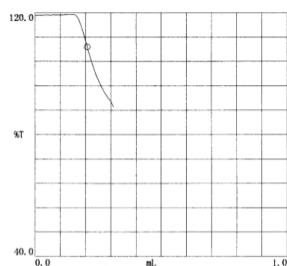
2. Apparatus

| | |
|-----------|--|
| Main unit | Automatic potentiometric titrator (preamplifier PTA) |
| Electrode | Photometric sensor Interference filter (630nm) |

3. Reagents

| | |
|-----------|---|
| Titrant | 0.1mol/L potassium hydroxide ethanolic solution |
| Indicator | 1% phenolphthalein |

4. Example



—Titration curve—

—Measurement results—

| | Sample (g) | Titer (mL) | Acid number (mg/g) |
|---------|------------|------------|--------------------|
| 1 | 100.004 | 0.2062 | 0.01159 |
| 2 | 100.005 | 0.1940 | 0.01091 |
| 3 | 100.006 | 0.1900 | 0.01068 |
| Average | | | 0.01106 |
| SD | | | 0.00047 |
| RSD(%) | | | 4.3 |

Please feel free to contact us for any further information.

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