

## Application Catalog

# Total Acid Value of Acrylic Monomer

|                    |                                   |
|--------------------|-----------------------------------|
| Industry           | Organic chemical industry         |
| Instrument         | Automatic potentiometric titrator |
| Measurement method | Acid-base titration               |
| Standards          | JIS K0070                         |

## 1. Overview

Total acid value of acrylic monomer can be measured according to the standard test method JIS K 0070-1992.

The test sample after adding acetone is titrated with the 0.1mol/L potassium hydroxide + Methanol solution. The endpoint is found by the maximum inflexion point on titration curve. The acid value is calculated from the titration volume.

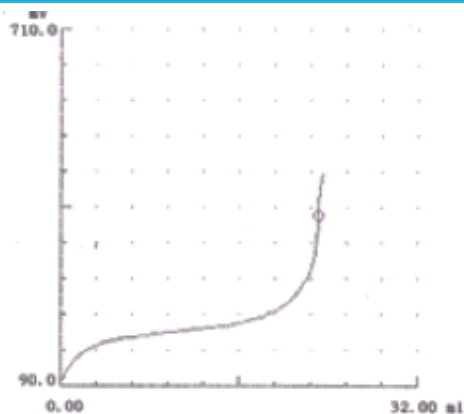
## 2. Apparatus

|           |   |
|-----------|---|
| Main unit | Automatic potentiometric titrator (preamplifier STD)  |
| Electrode | pH glass electrode<br>Double junction reference electrode<br>Temperature compensation electrode |

## 3. Reagents

|         |  |
|---------|--|
| Titrant | 0.2mol/L potassium hydroxide + Methanol solution |
| Solvent | Acetone  |

## 4. Example



—Titration—

-Measurement results-

|   | Sample<br>(g) | Titer<br>(mL) | Acid<br>number<br>(mgKOH/g) |
|---|---------------|---------------|-----------------------------|
| 1 | 1.0688        | 23.1661       | 206.71                      |

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