

## Application Memo

# Determination of Monopotassium Phosphate

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

## 1. Overview

After adding sodium chloride to the diluted sample, monopotassium phosphate concentration is measured by titration with the 0.1mol/L sodium hydroxide solution at 15°C. The endpoint is the maximum inflexion on the titration curve. The monopotassium phosphate concentration is calculated from the titration volume of sodium hydroxide.

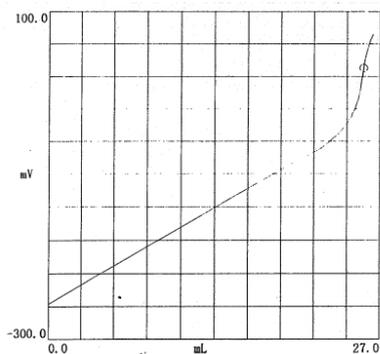
## 2. Apparatus

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

## 3. Reagents

|          |                                   |
|----------|-----------------------------------|
| Titrant  | 1 mol/L sodium hydroxide solution |
| Additive | Sodium chloride                   |

## 4. Example



-Titration curve-

| -Measurement results- |                   |
|-----------------------|-------------------|
|                       | Concentration (%) |
| Average               | 99.869            |
| SD                    | 0.240             |
| RSD(%)                | 0.240             |

Please feel free to contact us for any further information.  
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