

## Application Memo

# Determination of Diammonium Phosphate

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

## 1. Overview

After adding the formaldehyde to the diluted sample and leaving for an hour, add sodium chloride and pure water to it. Diammonium 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 diammonium phosphate concentration is calculated from the titration volume of sodium hydroxide.

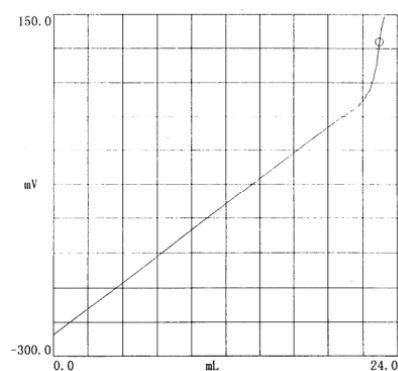
## 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode Ceramic reference electrode Temperature compensation electrode

## 3. Reagents

Titrant	1mol/L sodium hydroxide solution
Solvent	(1+1) formaldehyde aqueous solution (using phenolphthalein as indicator, Neutralized with 0.1 mol/L sodium hydroxide)
Additive	Sodium chloride

## 4. Example



-Titration curve-

-Measurement results-

	Concentration (%)
Average	99.306
SD	0.023
RSD(%)	0.023

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