

## Application Memo

# Quantitative Determination of Ammonium Adipate

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 to it. Ammonium adipate 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 ammonium adipate concentration is calculated from the titration volume of sodium hydroxide.

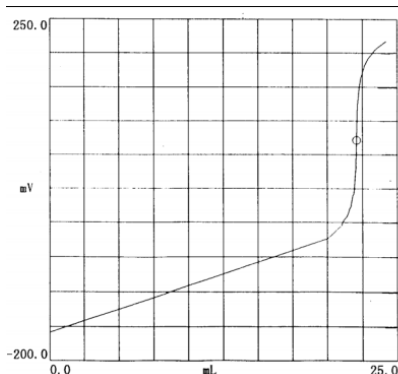
## 2. Apparatus

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	(2+1) Formaldehyde aqueous solution (using phenolphthalein as indicator Neutralized with 0.1mol/L sodium hydroxide)
Additive	Sodium chloride

## 4. Example



-Titration curve-

-Measurement results-

Concentration (%)	
Average	99.661
SD	0.234
RSD(%)	0.235

Please feel free to contact us for any further information.

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