

## Application Memo

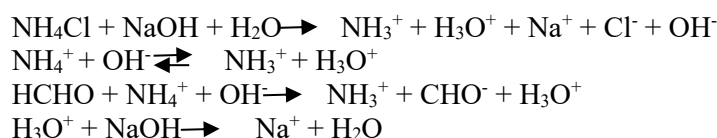
# Purity of Ammonium Chloride

Industry	Pharmaceutical
Instrument	automatic potentiometric titrator
Measurement method	Acid base titration
Standards	

## 1. Overview

Purity of ammonium chloride is measured based on JIS K 8116-2006 "Ammonium chloride". The sample is dissolved in mixture of water and 25mL formaldehyde neutralized with 0.1mol/L standard sodium hydroxide, and 1mol/L standard sodium hydroxide is dosed to the equivalence point. After left for an hour, titrate again with 1mol/L standard sodium hydroxide up to the equivalence point. The equivalence point is the maximum point of inflection.

The ammonium concentration is calculated from the titrated volume of 1mol/L standard sodium hydroxide including fixed dose, and the purity is obtained.



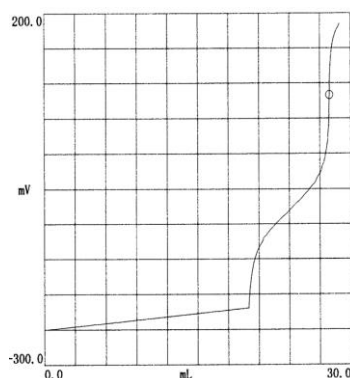
## 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined glass electrode

## 3. Reagents

Titrant	1mol/L and 0.1mol/L standard sodium hydroxide
Solvent	Neutral formaldehyde diluent 0.1% phenolphthalein

## 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	(%)
1	1.5036	27.9327	99.466
2	1.5003	27.8725	99.470
3	1.5040	27.9556	99.522
Average			99.49
SD			0.031
RSD(%)			0.031

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