

## Application Memo

# Analysis of Chlorine in Paraffin Chloride

Industry	Petrochemicals
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	Nothing

## 1. Overview

Low concentration of chlorine in paraffin chloride is measured by titration of mixture of sample liquid with 2-propanol and 0.01mol/L sodium chloride (10.0mL) with 0.1mol/L silver nitrate solution. The endpoint is maximum inflexion on the titration curve.  
Before titration, obtain titration volume of 0.1mol/L silver nitrate corresponding to 10.0mL of 0.01mol/L sodium chloride, and calculate the chlorine concentration of the sample from the measured titration volume minus obtained titration volume.

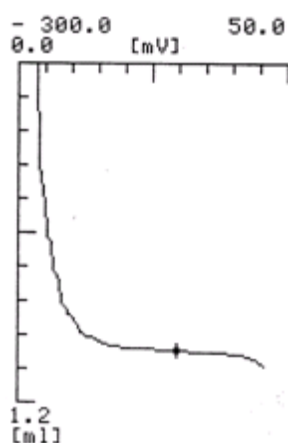
## 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Silver electrode Mercury sulfate reference electrode

## 3. Reagents

Titrant	0.1mol/L silver nitrate solution (f=1.004)
Solvent	2-propanol
Additive	0.01mol/L sodium chloride

## 4. Example



-Titration curve-

-Measurement results-			
	Sample (g)	Titer (mL)	Concentration (%)
1	2.0087	1.0213	0.00121

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