

Application Memo

Acidity And Salinity (1st Method: Acidity)

Industry	Food & beverage
Instrument	Automatic potentiometric titrator
Measurement method	Combined titration
Standards	

1. Overview

More than two kinds of titration on a sample can be performed by the combined titration. Mixture of 2% citric acid and 5% NaCl was titrated to determine acidity and salinity. By 1st method the endpoint volume of 0.1mol/L sodium hydroxide was converted to citric acid, and salinity was determined by 2nd method to convert 0.1mol/L silver nitrate to sodium chloride. For 2nd method parameters, refer to TIF-99349.

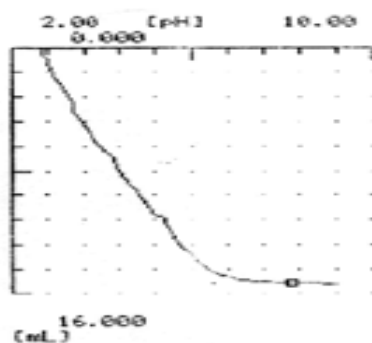
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L sodium hydroxide 0.1mol/L silver nitrate
Reagent	3mol/L nitric acid

4. Example



—Titration curve—

—Measurement results—

	Sample size (mL)	Titer (mL)	Concentration (%)
1	5.0	15.2898	1.957
2	5.0	15.1633	1.941
3	5.0	15.2755	1.955
Average			1.951
SD			0.009
RSD(%)			0.5

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