

Application Memo

Concentration of Lactic Acid

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

1. Overview

Titrated the sample of 2w/w%-lactic acid solution with 0.1mol/L sodium hydroxide up to pH8.3 where phenolphthalein changes its color. The titration volume was converted to lactic acid to determine concentration.

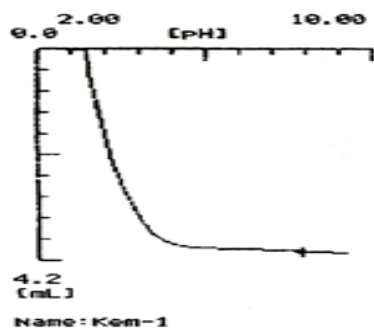
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L sodium hydroxide
---------	---------------------------

4. Example



—Titration curve—

—Measurement results—

	Sample size (g)	Titer (mL)	Concentration (w/w%)
1	2.182	4.0406	1.612
2	2.223	4.1496	1.625
3	2.236	4.1499	1.616
Average			1.617
SD			0.007
RSD(%)			0.4

Please feel free to contact us for any further information.
 <Contact> Kyoto Electronics Manufacturing Co., Ltd.
 Overseas Sales & Marketing Sect.
<http://www.kyoto-kem.com/en/contact/form.php>