

Application Memo

Concentration of Citric Acid

Industry	Food
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

In this memo, the concentration of the prepared 2w/w% citric acid sample is tested. The diluted sample is titrated with 0.1mol/L sodium hydroxide up to pH8.3. The citric acid concentration is calculated from the titration volume of sodium hydroxide.

2. Apparatus

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

3. Reagents

Titrant	0.1mol/L sodium hydroxide
Additive	Pure water

4. Example



—Titration curve—

—Measurement results—			
	Sample (g)	Titer (mL)	Concentration (w/w%)
1	1.583	5.0360	1.971
2	1.547	4.9145	1.968
3	1.559	4.9576	1.970
Average			1.969
SD			0.002
RSD(%)			0.08

Please feel free to contact us for any further information.
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