

TIZ-99254enL

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

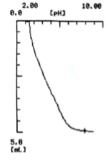
Temperature compensation electrode

3. Reagents

Titrant 0.1mol/L sodium hydroxide

Additive Pure water

4. Example



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—Titration	curve—

—Measurement results—			
	Sample	Titer	Concentration
	(g)	(mL)	(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

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