



Application Memo

Acidity of Concentrated Lemon Juice

Industry Food & beverage

Instrument Automatic potentiometric titrator

Measurement method Acid-base titration

Standards ISO750

1. Overview

Determination of acidity of fruit juice is popularly practiced by potentiometric acid-base titration using a glass electrode. After pure water is added, titrate with 0.1mol/L sodium hydroxide up to pH8.3, and the titration volume is converted to citric acid. Juices containing granules such as concentrated lemon juice requires filtering.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode Combined glass electrode

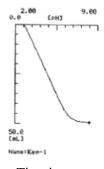
Temperature compensation electrode

3. Reagents

Titrant 0.1mol/L sodium hydroxide

Solvent Pure water

4. Example



—Measurement results—			
	Sample	Titer	Acidity
	(g)	(mL)	(w/w%)
1	4.999	49.4754	6.316
2	4.994	49.4444	6.318
3	4.998	49.4588	6.315
Average			6.317
SD			0.002
RSD(%)			0.03

—Titration curve—

Please feel free to contact us for any further information.

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