

Application Memo

Acidity of Concentrated Lemon Juice

Industry	Food & beverage
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	ISO 750

1. Overview

Determination of fruit juice acidity is standardized by and ISO 750:1998 where potentiometric acid-base titration with sodium hydroxide is specified. 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.

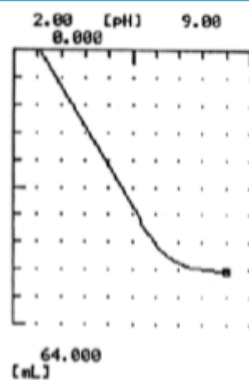
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L sodium hydroxide
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4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Acidity (w/w%)
1	5.1805	51.4904	6.2097
2	5.3102	52.6593	6.1956
3	5.2113	51.6654	6.1940
Average			6.1998
SD			0.0086
RSD(%)			0.14

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 Overseas Sales & Marketing Sect.
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