

Application Memo

Acidity of Orange Juice

Industry	Food & beverage
Instrument	Automatic potentiometric titrator
Measurement method	Potentiometric titration /Neutralization titration
Standards	JAS、ISO 750

1. Overview

Determination of acid degree of fruit juice is standardized by below quoted Japanese Agricultural Standards 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.

Sample juice with granular pulp requires filtering.

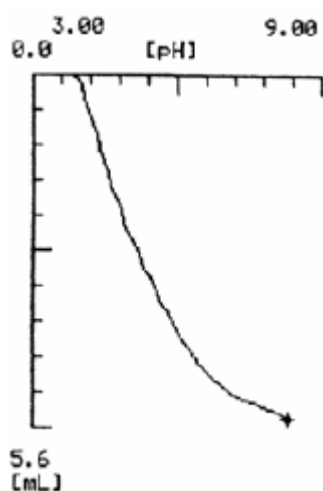
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combination 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	5.000	5.4668	0.6778
2	4.951	5.3966	0.6756
3	4.995	5.4523	0.6766
Average			0.6767
SD			0.0011
RSD(%)			0.16

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