

## Application Memo

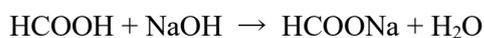
### Concentration of Formic Acid

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

#### 1. Overview

Formic acid is measured by titration with 1mol/L sodium hydroxide after the sample is diluted with water.

The endpoint is the maximum inflexion on the titration curve. The concentration of formic acid is calculated from the titration volume of sodium hydroxide.



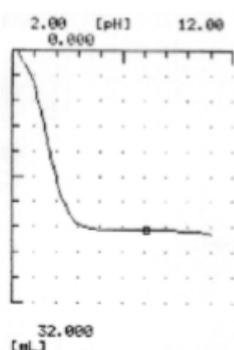
#### 2. Apparatus

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

#### 3. Reagents

Titrant	1 mol/L sodium hydroxide
Solvent	Pure water

#### 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Formic acid (%)
1	1.0357	22.7929	99.106
2	1.0884	23.9522	99.115
3	1.1049	24.2749	98.953
Average			99.058
SD			0.091
RSD(%)			0.091

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