

Application Memo

Determination of Sulfanilic Acid

Industry	Organic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Redox titration
Standards	

1. Overview

The test sample after hydrochloric acidified is dissolved with potassium bromide, and titrated with the 0.1mol/L sodium nitrite solution while maintaining temperature between 10 and 15°C. Potentiometric titration determines the endpoint at maximum inflexion point on the titration curve. The sulfanilic acid concentration is calculated from the titration volume of the 0.1mol/L sodium nitrite solution.

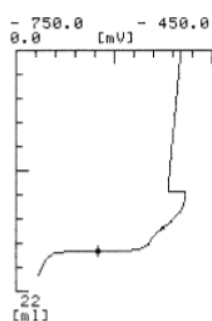
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L Sodium nitrite
Solvent	Pure water
Reagent	Hydrochloric acid, Potassium bromide

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Concentration (%)
1	0.3318	18.3910	96.00
2	0.3317	18.4038	96.10
3	0.3130	17.3555	96.04
Average			96.05
SD			0.05
RSD(%)			0.05

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