

Application Memo

Determination of Sulfamine for Industrial Use

Industry	Organic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Redox titration
Standards	JIS K 9066

1. Overview

Quantitative determination of Sulfamine is according to JIS K 9066-2019 Sulfanilamide (Regent). The test sample after hydrochloric acidified is dissolved with potassium bromide and titrated with the 0.1mol/L sodium nitrite solution up to the maximum inflexion point on the titration curve while maintaining temperature between 10 and 15°C. Sulfamine concentration is calculated from the titration volume of the 0.1mol/L sodium nitrite solution.

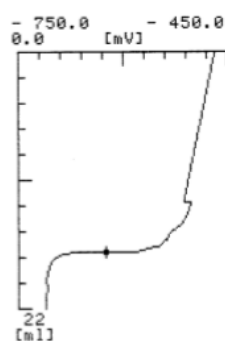
2. Apparatus

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	0.3087	17.2313	96.13
2	0.3117	17.3658	95.94
3	0.3052	17.0013	95.93
Average			96.00
SD			0.11
RSD(%)			0.11

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