

TIJ-99324enL

Application Memo Sulfadimethoxine of Dye

Industry Paint, Adhesive

Instrument Automatic potentiometric titrator

Measurement method Polarization titration

Standards JIS K 4101

1. Overview

Sulfadimethoxine is an intermediate of a dye, and its concentration is measured according to JIS K 4101-1993 General test method for organic intermediates - 11.6 Diazotization titration - 11.6.2 Direct (General) method. The sample, first hydrochloric acidified is dissolved with potassium bromide, and is titrated with 0.5mol/L sodium nitrite while maintaining temperature at 0 to 5°C. The endpoint is determined by the maximum inflexion point on the titration curve. The concentration of sulfadimethoxine is calculated from the titration volume of 0.5mol/L sodium nitrite.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier POT)

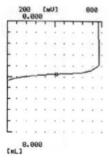
Electrode Twin platinum electrode

3. Reagents

Titrant 0.5mol/L sodium nitrite

Solvent Hydrochloric acid, Potassium bromide

4. Example



—Measurement results—			
	Sample	Titer	Concentration
	(g)	(mL)	(%)
1	1.0472	3.8363	56.837
2	1.1279	4.1275	56.777
3	1.0881	3.9521	56.353
Average			56.656
SD			0.264
RSD(%)			0.466

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Please feel free to contact us for any further information.

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[—]Titration curve—