

## Application Memo

### Purity of Aromatic Amine

Industry	Pharmaceutical
Instrument	Automatic potentiometric titrator
Measurement method	Redox titration
Standards	Japanese pharmacopoeia

#### 1. Overview

After adding hydrochloric acid, pure water and potassium bromide to the sample, aromatic amine concentration is measured by titration with 0.1mol/L sodium nitrite while maintaining temperature below 15°C. The endpoint is the maximum inflexion point on the titration curve. The purity of aromatic amine is calculated from the titration volume of the 0.1mol/L sodium nitrite.

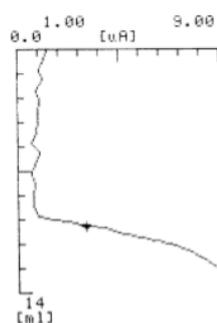
#### 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier POT)
Electrode	Twin platinum electrode

#### 3. Reagents

Titrant	0.1mol/L sodium nitrite
Solvent	Pure water
Additive	Hydrochloric acid, 30% potassium bromide

#### 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Aromatic amine (%)
1	0.1466	10.1865	100.7
2	0.1481	10.3442	101.2
3	0.1409	9.8282	101.1
Average			101.0
SD			0.3
RSD(%)			0.3

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