

## Application Memo

# Boric Acid in Plating Solution

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base Titration
Standards	ISO 6353-3

## 1. Overview

Add sample and pure water to the warm water dissolving Mannitol and titrate with sodium hydroxide up to the endpoint. The endpoint is the maximum inflexion on the titration curve. The boric acid concentration is calculated from the titration volume.

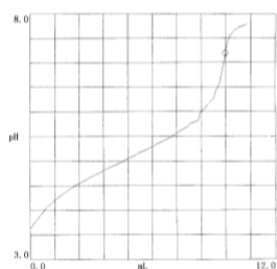
## 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode Ceramic reference electrode Temperature compensation electrode

## 3. Reagents

Titrant	0.1 mol/L sodium hydroxide
Solvent	Pure water
Reagent	Mannitol

## 4. Example



—Titration curve—

—Measurement results—			
	Sample (mL)	Titer (mL)	Boric acid (g/L)
1	2.0	9.4847	29.31
2	2.0	9.5805	29.60
Average			29.46

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