

Application Memo Determination of Boric Acid

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	GB/T 538, GB/T 12684

1. Overview

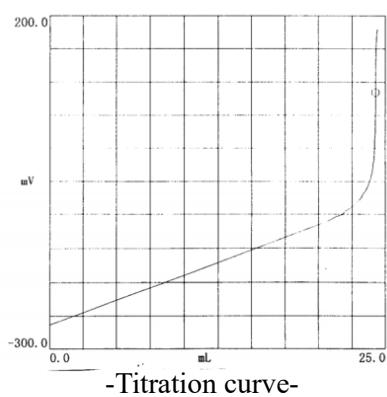
After adding mannitol to the diluted sample, boric acid concentration is measured by titration with the 1mol/L sodium hydroxide solution. The endpoint is the maximum inflection on the titration curve. The boric acid concentration is calculated from the titration volume of sodium hydroxide.

2. Apparatus

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

3. Reagents

Titrant	1mol/L sodium hydroxide solution
Solvent	Pure Water
Additive	Mannitol



-Measurement results-

	Concentration (%)
Average	99.951
SD	0.140
RSD(%)	0.140

Please feel free to contact us for any further information.
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