

Application Memo

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	HG/T 3458, JIS K 8073

1. Overview

Purity of benzoic acid is measured according to JIS K 8073-2017 Benzoic acid. Titrate with 0.1mol/L sodium hydroxide after adding ethanol and pure water. Titration goes up to the endpoint, which is the maximum inflexion on the titration curve. Purity of benzoic acid can be calculated from the titration volume of sodium hydroxide.

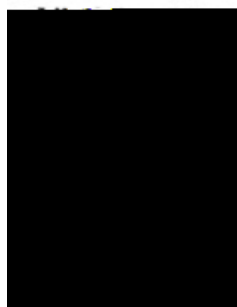
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined glass electrode for micro titration Temperature compensation electrode

3. Reagents

Titrant	0.1mol/L sodium hydroxide
Solvent	Pure water
Additive	Ethanol

4. Example



—Titration curve—

—Measurement results—			
	Sample (g)	Titer (mL)	Benzoic acid (%)
1	0.4955	40.6698	99.20
2	0.4907	40.3759	99.45
3	0.5000	41.0843	99.31
Average			99.32
SD			0.12
RSD(%)			0.12

Please feel free to contact us for any further information.

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