

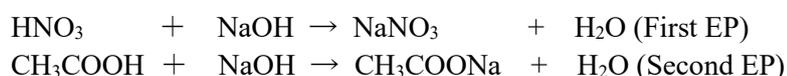
Application Memo

Mixture of Nitric and Acetic Acid

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

Concentration of mixture of 10% nitric acid and 10% acetic acid is measured by titration with 1mol/L sodium hydroxide. The titration goes up to two endpoints: the first EP on titration curve is for nitric acid, and the second for acetic acid.



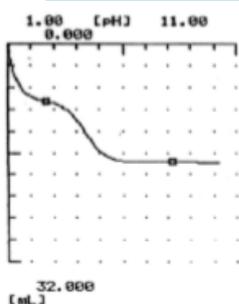
2. Apparatus

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

3. Reagents

Titrant	1 mol/L sodium hydroxide
Solvent	Pure water

4. Example



—Measurement results—

	Sample (g)	Titer (mL)		Nitric acid (%)	Acetic acid (%)
		EP1	EP2		
1	5.0549	8.2626	17.0164	10.33	10.43
2	5.0666	8.2521	17.0293	10.29	10.43
3	5.1732	8.4456	17.4007	10.32	10.43
Average				10.31	10.43
SD				0.02	0.00
RSD(%)				0.2	0.0

—Titration curve—

Please feel free to contact us for any further information.
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<http://www.kyoto-kem.com/en/contact/form.php>