

TIC-99394enL

Application Memo Sodium Picosulfate Hydrate

Industry Pharmaceutical

Instrument Automatic potentiometric titrator

Measurement method Acid-base titration
Standards Japanese Pharmacopoeia

1. Overview

According to the test method of Japanese Pharmacopoeia, sodium picosulfate hydrate is measured as follows. Add methanol and glacial acetic acid to the sample, then titrate with 0.1mol/L acetic acid perchlorate. The endpoint is determined by the maximum inflexion on the titration curve. The concentration is calculated by the titration volume up to the endpoint.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode pH glass electrode

Double junction reference electrode Temperature compensation electrode

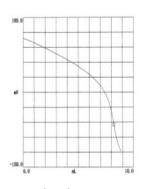
3. Reagents

Titrant 0.1mol/L acetic acid perchlorate

Solvent Methanol

Reagent Glacial acetic acid

4. Example



—Titration c	curve—
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—Measurement results—				
	Sample	Titer	SPH	
	(g)	(mL)	(mg/g)	
1	0.4020	8.2186	98.81	
2	0.4016	8.0178	96.49	
3	0.4015	8.0166	96.50	
4	0.4021	8.1309	97.73	
5	0.4023	8.0052	96.18	
Average			97.14	
SD			1.11	
RSD(%)			1.14	

Please feel free to contact us for any further information.

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