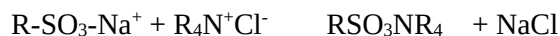


Application Memo

Industry	Cosmetics soap
Instrument	Automatic potentiometric titrator
Measurement method	Ion association titration
Standards	QB/T 4969

1. Overview

Cationic surfactant concentration can be calculated from the potentiometric titration volume using an electrode for surface-active agent. Titrate with 0.005mol/L dodecyl sodium sulfate (SDS) up to the endpoint. The endpoint is the maximum inflexion point on the titration curve.



Where R CH₃(CH₂)_nO (n=9 ~ 13)
R₄ Carbon chain of surfactant

2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined surfactant electrode

3. Reagents

Titrant	0.005mol/L SDS
Solvent	1% TritonX-100, 0.01mol/L hydrochloric acid

4. Example



—Titration curve—

—Measurement results—			
	Sample (g)	Titer (mL)	Concentration (%)
1	5.3884	3.0665	0.7887
2	5.3884	3.0712	0.7899
3	5.3884	3.1444	0.8087
Average			0.7958
SD			0.0112
RSD(%)			1.41

Please feel free to contact us for any further information.
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