

Application Memo

Industry Environmental
 Instrument Automatic potentiometric titrator
 Measurement method Acid-base titration
 Standards

Alkalinity of tap water is measured by titration with 0.01mol/L sulfuric acid after adding 0.1mol/L sodium thiosulfate to the sample up to pH8.3 and pH4.8. The alkalinity is calculated from the titration volume of sulfuric acid.

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

Titrant 0.01mol/L (0.02N) sulfuric acid
 Additive 0.1mol/L sodium thiosulfate

Measurement results			
	Sample (mL)	Titer (mL)	Concentration (mg/L)
1	100.0	6.6172	66.17
2	100.0	6.6195	66.20
3	100.0	6.6283	66.28
Average			66.22
SD			0.059
RSD(%)			0.088

Titration curve