

TIQ-99315enL

Application Memo

Acid Consumption of Industrial Effluent

Industry Environmental

Instrument Automatic potentiometric titrator

Measurement method Acid-base titration Standards JIS K 0102

1. Overview

According to JIS K 0102-2019 -15, the sample liquid is titrated with 0.1mol/L hydrochloric acid up to pH8.3 and pH4.8. The measurement result is expressed by hydrogen ion (acid) in mmol/L required to neutralize dissolved alkali or converted to calcium carbonate in mg/L equivalent to the acid.

In this application memo, the acid consumption each at pH8.3 and pH4.8 is obtained from titration with 0.1mol/L hydrochloric acid respectively.

$$HCO_3^- + CO3^2 + OH^- + 4H^+ \rightarrow 2H_2CO_3 + H_2O$$

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

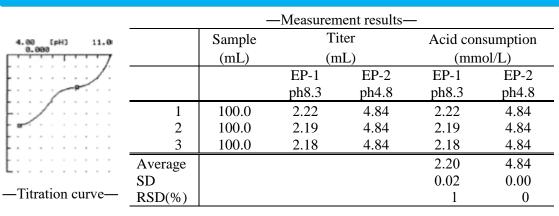
Electrode Combined glass electrode

Temperature compensation electrode

3. Reagents

Titrant 0.1mo1/L hydrochloric acid

4. Example



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