Cyanuric Acid

Method - Colorimetric

After adding the sample into the measurement cell, some reagents are added in order to adjust the solution to the desired conditions (pH, valence's elements, etc.). Then, a blank is done to correct any temperature or turbidity disturbance. Subsequently, a last reagent is added, and it reacts with solution developing a color, which is measured using a correct wavelength. Thanks to the photometer used, the result achieves a great accuracy.

Principle of measurement

The method is based upon the turbidity created as a consequence of the reaction between the reagents added and the cyanuric acid present in the sample. This reaction creates a insoluble substance whose turbidity absorbance is linear to the cyanuric acid concentration.

Advantages of the method

The method is specific for the cyanuric acid measurement. It permits to detect precisely higher concentrations than 7.5ppm that it is commonly the limit to actuate on chlor-alkaly applications and it is really sensitive. Moreover, it works with 300 g/l NaCl brine.

Specifications

Range: From 5 to 50 ppm. Adjustable higher concentrations
with internal dilution.
Accuracy: ±2%
Repeatability: ±2%
Resolution: 0,01 ppm
Limit of detection: 5ppm
Analysis time: around 15 minutes
Calibration: two point
LED Wavelength: 650 nm

Reagents consumption

- Reagent 1: 0.66 ml / analysis — 0.5L / month
- Reagent 2: 2 ml / analysis — 1.5L / month

Monthly consumption calculated assuming 1 analysis per hour.

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