Chloride (Cl-)

Method - ISE

The standard known addition (SKA) technique is used to perform the analysis. During the process, two readings are done. The difference between both and the slope found during calibration are used to calculate the concentration. Possible changes on the matrix sample are corrected due to this both lectures, as the reference to calculate the result is the relative difference of mV and not the absolute values. This avoids external interferences.

Principle of measurement

The sample is titrated with hydrochloric acid to a colorimetric end point corresponding to a specific pH. Reagent 1 is added to activate the electrode before the analysis. After that, a first measurement is done. Subsequently, a small volume of a high concentrated nitrate solution is added. Finally, a second lecture of mV takes place to calculate the result.

Advantages of the method

The method is very simple and is fairly specific as the chloride measurement and just a few parameters cause interferences, which can be removed.

Specifications

Range: From 0 to 5ppm / 20ppm / 50ppm / 100ppm / 500ppm / 1000ppm / 5000ppm. Adjustable higher concentrations
Accuracy: ±2%
Repeatability: ±2%
Resolution: 0,01 ppm / 0,1 ppm / 1 ppm
Analysis time: around 10 minutes
Calibration: one point
ISE: Chloride Cl- electrode

Applications

- Pharma industry
- Refineries

And more...

Reagents consumption

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

Monthly consumption calculated assuming 1 analysis per hour.

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Chloride (Cl-)

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