Fluoride (F)

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

Conditioning of the sample with TISAB III to adjust pH to 5.5 and eliminate interference of polyvalent cations. After that, the concentration of fluoride is measured by the method Known Addition (DKA)

Advantages of the method

The method is so simple and easy to be performed. It is specific for fluoride, without interferences after addition of TISAB III. Method DKA allows to correct any electrode drifts.

Specifications

Range: From 0 to 0.5ppm / 2ppm / 5ppm / 20ppm / 100ppm.
Adjustable higher concentrations with internal dilution.
Resolution: ±2%
Repeatability: ±2%
Analysis time: around 10 minutes
Calibration: one point
ISE: Fluoride F electrode

Applications

- Refineries
- Semiconductors
- Mining
- Automotive industry

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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