Caustic Sosa (NaOH)

Method - Colorimetric Tritation

After adding the reagents to establish the desirable conditions to the sample, the volume of titrant is charged. Thanks to the module syringe driver minimum dose (0.015 ml), the accuracy achieved is really high, with 3 drops differences as much between 2 consecutives analysis of the same standard. Moreover, the software has been improved to speed up the initial dose, whereas when the inflection point is close, the titrant is added slowly, to achieve precision.

Principle of measurement

The sample is titrated with hydrochloric acid to a colorimetric end point corresponding to a specific pH.
In this case, using phenolphthalein as an indicator, the initial colour of the solution is deep pink on reaction with the soda sample (pH>8). When the pH of the reaction mixture decreases to pH < 8 as it reacts with the titrating acid, exceeding the equivalence point of the caustic soda, the colour of the reaction mixture changes to transparent.
Thanks to the LED of the desired wavelength and the photometer used, a high reading accuracy is achieved.

Interferences of the method

Other basic substances in the media

Specifications

Range: Adjustable thanks to the acid concentration of the titrant.
Accuracy: ±2%
Repeatability: ±2%
Reproducibility: ±2%
Analysis time: around 15-20 minutes
Calibration: one point
LED Wavelength: 545 nm

Reagents consumption

Reagent 1: 0.1 ml / analysis — 0.1 L / month
Reagent 2: 4.5 ml / analysis — 3.25 L / month
Monthly consumption calculated assuming 1 analysis per hour.

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