Sulphide (S^{2}-)

Method - ISE

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

Sulfide may be titrated with a lead perchlorate standard solution. For sulfide measurements, titrations produce an extremely sharp endpoint, even at low levels of sulfide. Titrations are more time-consuming than direct electrode measurement, but results are more accurate and reproducible.

Advantages of the method

With careful technique, titrations accurate to ± 0.1% of the total sulfide ion concentration of the sample can be performed. Thanks to the accuracy of the dosing system, that careful performance is possible even with an online analyzer.

Specifications

Range: From 0 to 10 ppm / 50 ppm / 100 ppm / 250 ppm / 500 ppm.
Adjustable higher concentrations adjusting reagents concentrations.
Accuracy: ±2% Full Scale
Repeatability: ±2%
Resolution: 0,01 ppm or 0,1 ppm
Analysis time: around 20 minutes
Calibration: one point

Reagents consumption

- Reagent 1: 3 ml / analysis — 2.25 L / month
- Reagent 2: 4 ml / analysis — 3.0 L / month

Monthly consumption calculated assuming 1 analysis per hour.

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Sulphide (S^{2}-)

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