Hydrazine (N_2H_4)

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

There is a direct coupling of the carbonyl group of the 4-aminobenzaaldehyde with the NH_2 group of the hydrazine to form a yellow colored complex.

Advantages of the method

The method is very simple requiring but a single reagent, which is specific for hydrazine. Keeping the reagent in an amber container, which will not transmit UV light, the reagent is stable for at least a month.

Specifications

Range: From 0 to 100 ppb.
Adjustable higher concentrations with internal dilution.
Accuracy: ±2%
Repeatability: ±2%
Resolution: 0.1 ppb
Analysis time: around 18 minutes
Calibration: two point
LED Wavelength: 450 nm

Reagents consumption

• Reagent 1: 2.5 ml / analysis — 2.0L / month
Monthly consumption calculated assuming 1 analysis per hour.

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