Phenol (C_6H_6O)

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

The method relies upon the reaction of the phenol with 4-aminoantipyrene followed by oxidation of the adduct with persulfate to form a pink complex.

Advantages of the method

The method is specific for phenol and all non-4-substituted monohydric phenols. The method is also very sensitive and levels as low as 0 to 100 ppb may be measured using the correct circumstances.

Specifications

Range: From 0 to 100 ppb / 500 ppb / 1000 ppb.
Adjustable higher concentrations with internal dilution.
Accuracy: ±2%
Repeatability: ±2%
Resolution: 0.1 ppb A
nalysis time: around 15 minutes
Calibration: two point
LED Wavelength: 510 nm

Applications

• Refinery
And more...

Reagents consumption

• Reagent 1: 4 ml / analysis — 3.0L / month
• Reagent 2: 4 ml / analysis — 3.0L / monthMonthly consumption calculated assuming 1 analysis per hour.

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Phenol (C_6H_6O)

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