

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



OPTICS 1000 - CYANIDE

CYANIDE (CN⁻)

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Optics 1000 Series

CYANIDE (CN-)

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

After adding a buffer to establish the desired pH conditions to reactions takes place, Chloramine-T reagent reacts with cyanide ion to form cyanogen chloride. Afterwards, this compound reacts with the reagent color to form a blue colored complex. The intensity of the blue color developed is proportional to the concentration of cyanide in sample.



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 200 ppb. Adjustable higher concentrations with internal dilution.
ACCURACY	±2%
REPEATABILITY	±2%
ANALYSIS TIME	around 20 minutes
RESOLUTION	0,1 ppb
CALIBRATION	two point
LED WAVELENGTH	588 nm

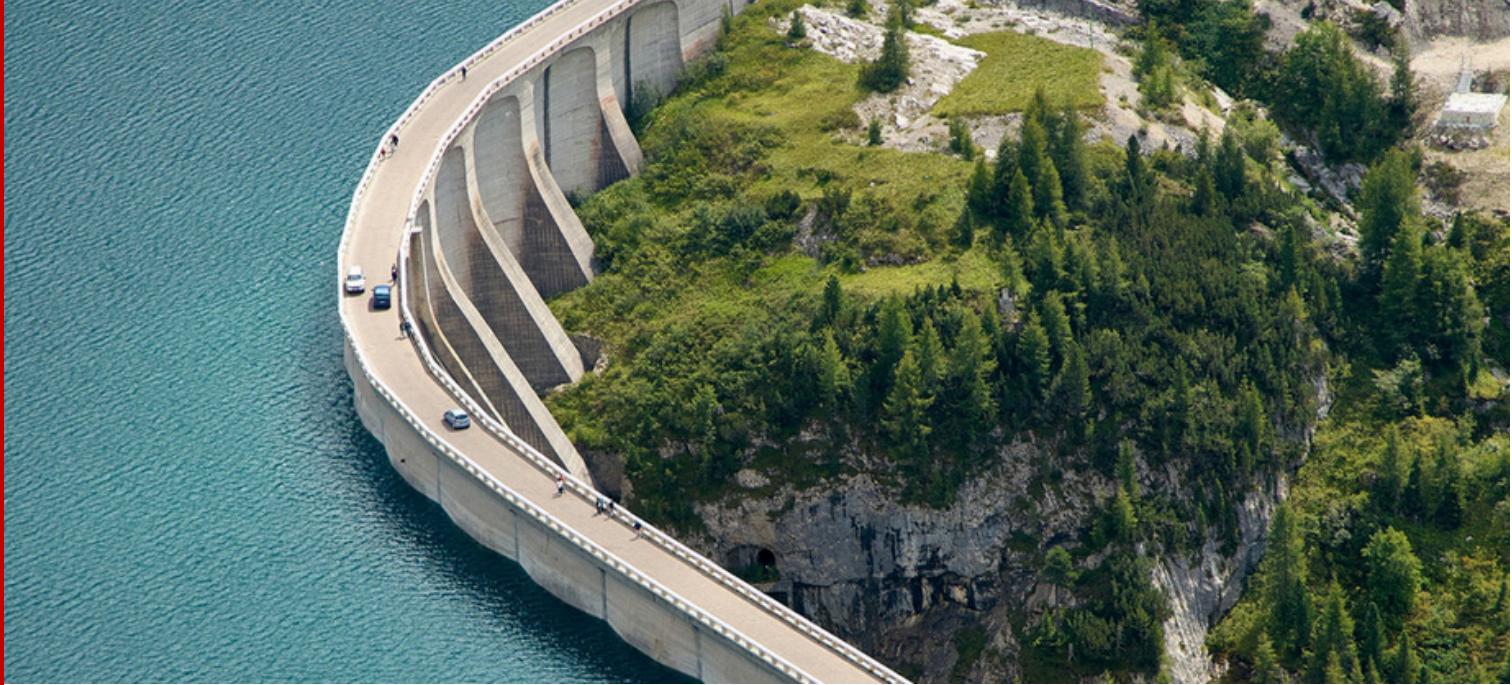
Reagents consumption

- Reagent 1: 1 ml / analysis - 0.75L / month
- Reagent 2: 1 ml / analysis - 0.75L / month
- Reagent 3: 2 ml / analysis - 1.50L / month

Monthly consumption calculated assuming 1 analysis per hour.



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**Note -**

This data sheet serves as general information about the Optics 1000 - CYANIDE (CN-). For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.

For inquiries and detailed technical information, please contact sales@advanceanalytik.com.



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Let's work together to find a solution that
works for you



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