

Fluorat-02

Fluorimetric & photometric liquid analyzer



Determination of **fluorescein** in natural and oilfield water by fluorimetric method

INTRODUCTION

Lumex Instruments provides sensitive and selective fluorimetric method for the measurement of mass concentration of fluorescein in natural and oilfield water samples using the FLUORAT-02 analyzer.



MEASUREMENT RANGE

The measurement range for fluorescein is 0,001-0,1 mg/L (ppm). Samples with higher fluorescein content should be diluted prior to analysis.

METHOD

The method is based on measurement of fluorescence intensity of alkaline sample solutions using Fluorat-02 analyzer displayed as fluorescein concentration in mg/L (ppm). The result appears on the PC-operated FLUORATE software.

Samples should be pretreated by filtering and alkalizing up to $\text{pH} > 9$.

EQUIPMENT AND REAGENTS

The following equipment and reagents are used for measuring:

- FLUORAT-02 analyzer with FLUORATE software
- Lumex Instruments optical filters*
- Fluorescein, pure *
- Reagent water complying with grade 1 as defined in ISO 3696
- Potassium hydroxide, p.a.
- Hydrochloric acid, p.a.
- Citric acid, trisodium salt dihydrate, pure
- Chloroform, puriss.

* – included in Lumex Instruments "Fluorescein in natural and oilfield water" kit, Order N° 300002568