

**FEDERAL AGENCY FOR TECHNICAL REGULATION AND METROLOGY
(Rosstandart)**

ИРСТ | ВНИИМС

FEDERAL STATE BUDGETARY INSTITUTION
“All-Russian Research Institute of Metrological Service”
Registration number at the Register of Accredited Parties No. RA.RU.311787

CERTIFICATE
OF ATTESTATION OF A MEASURING TECHNIQUE (METHOD)

No 205-13/RA.RU.311787/2022

The technique for measurement of biochemical oxygen demand of water by the barometric method, developed by NPO Kinematika Limited Liability Company (NPO Kinematika, LLC), 29A, N. Yershov Street, Kazan, 420061, and defined in the Document MI-002-67764787-2022 “Technique for Measurement of Biochemical Oxygen Demand of Water by the Barometric Method”, approved in 2022 and containing 15 pages, was attested in accordance with the Order of the Ministry of Industry and Trade of Russia of 15.12.2015 No. 4091, GOST R 8.563-2009 “State System for Ensuring the Uniformity of Measurements. Measuring Techniques (Methods)”, GOST R ISO 5725-2002 “Precision (Correctness and Accuracy) of Methods and Results of Measurements”.

The attestation was carried out based on the results of theoretical and experimental research of the measuring technique

As a result of the attestation it was established that the measuring technique complies with the metrological requirements specified for it and has the basic metrological specifications mentioned on the reverse side of this Certificate.

Deputy Director for
Production Metrology



(Signature) A.E. Kolomin

Head of Department

(Signature) S.V. Vikhrova

25 August 2022

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FIGURES OF ACCURACY OF MEASUREMENTS

Table 1

Measurement range, BOD, X, mgO ₂ /dm ³	Accuracy figures (relative accuracy limits), $\pm\delta$, % At P=0.95	Repetition figures (relative standard deviation of repetition), σ_r , %	Repeatability figures (relative standard deviation of repeatability), σ_R , %	Relative repeatability limit, r, %, P=0.95, n=2
From 0.1 to 50 inclusive	40	14	22	39
From 50 to 150 inclusive	22	7	10	19
From 150 to 250 inclusive	22	3	5	8

Head of Department No. 205 FGBU
"VNIIMS"

(Signature)

S.V. Vikhrova

Senior Research Officer of
Department No. 205 FGBU "VNIIMS",
Candidate of Chemical Sciences

(Signature)

I.A. Piterskikh