

SLOVENSKI STANDARD
SIST EN ISO 11905-1:2000
01-januar-2000

Kakovost vode – Določevanje dušika – 1. del: Metoda z oksidativnim razklopom s peroksidisulfatom (ISO 11905-1:1997)

Water quality - Determination of nitrogen - Part 1: Method using oxidative digestion with peroxodisulfate (ISO 11905-1:1997)

Wasserbeschaffenheit - Bestimmung von Stickstoff - Teil 1: Bestimmung von Stickstoff nach oxidativem Aufschluß mit Peroxodisulfat (ISO 11905-1:1997)

Qualité de l'eau - Dosage de l'azote - Partie 1: Méthode par minéralisation oxydante au peroxodisulfate (ISO 11905-1:1997)

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Ta slovenski standard je istoveten z: EN ISO 11905-1:1998

ICS:

13.060.50	Preiskava vode na kemične snovi	Examination of water for chemical substances
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11905-1

May 1998

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Descriptors: see ISO document

English version

Water quality - Determination of nitrogen - Part 1: Method using
oxidative digestion with peroxodisulfate (ISO 11905-1:1997)

Qualité de l'eau - Dosage de l'azote - Partie 1: Méthode par
minéralisation oxydante au peroxodisulfate (ISO 11905-
1:1997)

Wasserbeschaffenheit - Bestimmung von Stickstoff - Teil 1:
Bestimmung von Stickstoff nach oxidativem Aufschluß mit
Peroxodisulfat (ISO 11905-1:1997)

This European Standard was approved by CEN on 25 April 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2
EN ISO 11905-1:1998

Foreword

The text of the International Standard from Technical Committee ISO/TC 147 "Water quality" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 230 "Water analysis", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 1998, and conflicting national standards shall be withdrawn at the latest by November 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 11905-1:1997 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 3696	1987	Water for analytical laboratory use - Specification and test methods	EN ISO 3696	1995

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INTERNATIONAL
STANDARD

ISO
11905-1

First edition
1997-05-01

**Water quality — Determination of
nitrogen —**

Part 1:
Method using oxidative digestion with
peroxodisulfate

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Qualité de l'eau — Dosage de l'azote —

Partie 1: Méthode par minéralisation oxydante au peroxodisulfate

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ISO 11905-1:1997(E)

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internetcentral@iso.ch
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11905-1 was prepared by Technical Committee ISO/TC 147, *Water quality*, Subcommittee SC 2, *Physical, chemical and biochemical methods*.

ISO 11905 consists of the following parts, under the general title *Water quality — Determination of nitrogen*:

- *Part 1: Method using oxidative digestion with peroxodisulfate*
- *Part 2: Determination of bound nitrogen after oxidation and combustion to nitrogen dioxide using chemiluminescent detection*

Annexes A to D of this part of ISO 11905 are for information only.

INTRODUCTION

This part of ISO 11905 describes the peroxodisulfate oxidation of nitrogen compounds in water to produce nitrate. Specific details of the determination of a continuous flow method with initial reduction of nitrate to nitrite by copperized cadmium are then reported. The procedures referred to in the normative method is the reference method. Annex C gives examples of alternative techniques suitable for the determination of nitrate in the digest solution. While staying within the scope of this part of ISO 11905, it is permissible to use such alternatives only provided that their performance meets or is better than that given in table A.1, when calculated using procedures described in ISO 5725-2, and when the comparison of precision data between this part of ISO 11905 and any alternative technique is carried out using the procedures described in ISO 2854.

All references to nitrogen concentrations are expressed in milligrams of nitrogen per litre of solution (mg/l).

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