

**SLOVENSKI STANDARD  
SIST EN ISO 10707:1998****01-maj-1998****Nadomešča:  
SIST ISO 10707:1997**

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**Kakovost vode - Vrednotenje "končne" aerobne razgradljivosti organskih snovi v vodi - Določanje biokemijske potrebe po kisiku (preskus v zaprtih steklenicah) (ISO 10707:1994)**

Water quality - Evaluation in an aqueous medium of the "ultimate" aerobic biodegradability of organic compounds - Method by analysis of biochemical oxygen demand (closed bottle test) (ISO 10707:1994)

Wasserbeschaffenheit - Bestimmung der vollständigen aeroben biologischen Abbaubarkeit organischer Stoffe in einem wäßrigen Medium - Verfahren mittels Bestimmung des biochemischen Sauerstoffbedarfs (Geschlossener Flaschentest) (ISO 10707:1994)

Qualité de l'eau - Evaluation en milieu aqueux de la biodégradabilité aérobie ultime des composés organiques - Méthode par analyse de la demande biochimique en oxygene (essai en fiole fermées) (ISO 10707:1994)

**Ta slovenski standard je istoveten z: EN ISO 10707:1997****ICS:**

13.060.70	Preiskava bioloških lastnosti vode	Examination of biological properties of water
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**SIST EN ISO 10707:1998****en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 10707

November 1997

ICS. 13.060.40

Descriptors: see ISO document

English version

Water quality - Evaluation in an aqueous medium of the  
"ultimate" aerobic biodegradability of organic compounds -  
Method by analysis of biochemical oxygen demand (closed  
bottle test) (ISO 10707:1994)

Qualité de l'eau - Evaluation en milieu aqueux de la  
biodégradabilité aérobie "ultime" des composés organiques  
- Méthode par analyse de la demande biochimique en  
oxygène (essai en fiole fermée) (ISO 10707:1994)

Wasserbeschaffenheit - Bestimmung der vollständigen  
aeroben biologischen Abbaubarkeit organischer Stoffe in  
einem wäßrigen Medium - Verfahren mittels Bestimmung  
des biochemischen Sauerstoffbedarfs (Geschlossener  
Fiaschentest) (ISO 10707:1994)

This European Standard was approved by CEN on 30 October 1997.

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.



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

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

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## 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 month of May 1998, and conflicting national standards shall be withdrawn at the latest by May 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 10707:1994 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 5813	1983	Water quality - Determination of dissolved oxygen - Iodometric method	EN 25813	1992
ISO 5814	1990	Water quality - Determination of dissolved oxygen - Electrochemical probe method	EN 25814	1992
ISO 9887	1992	Water quality - Evaluation of the aerobic biodegradability of organic compounds in an aqueous medium - Semi-continuous activated sludge method (SCAS)	EN ISO 9887	1994
ISO 9888	1991	Water quality - Evaluation of the aerobic biodegradability of organic compounds in an aqueous medium - Static test (Zahn-Wellens method)	EN 29888	1993
ISO 10304-2	1995	Water quality - Determination of dissolved anions by liquid chromatography of ions - Part 2: Determination of bromide, chloride, nitrate, nitrite, orthophosphate and sulfate in waste water	EN ISO 10304-2	1996
ISO 10634	1995	Water quality - Guidance for the preparation and treatment of poorly water-soluble organic compounds for the subsequent evaluation of their biodegradability in an aqueous medium	EN ISO 10634	1995

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INTERNATIONAL  
STANDARD

**ISO**  
**10707**

First edition  
1994-10-15

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**Water quality — Evaluation in an aqueous medium of the “ultimate” aerobic biodegradability of organic compounds — Method by analysis of biochemical oxygen demand (closed bottle test)**

*SIST EN ISO 10707:1998*  
*Qualité de l'eau — Évaluation en milieu aqueux de la biodégradabilité aérobie « ultime » des composés organiques — Méthode par analyse de la demande biochimique en oxygène (essai en fiole fermée)*



Reference number  
ISO 10707:1994(E)

**ISO 10707:1994(E)****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 10707 was prepared by Technical Committee ISO/TC 147, *Water quality*, Subcommittee SC 5, *Biological methods*.

Annexes A, B and C of this International Standard are for information only.

TECHNICAL STANDARD PREVIEW

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# Water quality — Evaluation in an aqueous medium of the “ultimate” aerobic biodegradability of organic compounds — Method by analysis of biochemical oxygen demand (closed bottle test)

**WARNING — SAFETY PRECAUTIONS — Activated sludge and sewage may contain potentially pathogenic organisms. Therefore appropriate precautions should be taken when handling them. Toxic test compounds and those whose properties are unknown should be handled with care.**

## 1 Scope

This International Standard specifies a method, by analysis of biochemical oxygen demand, for the evaluation in an aqueous medium of the “ultimate” biodegradability of organic compounds at a given concentration by aerobic microorganisms.

The conditions described in this International Standard do not necessarily always correspond to the optimal conditions for allowing the maximum value of biodegradation to occur.

The method applies to all organic compounds which are sufficiently water soluble to prepare a stock solution or poorly water soluble when using special dosing techniques.

Due to the low concentration of test compound at the beginning of the test, normally no special precautions for the toxicity of the test compound to the microorganisms of the inoculum is necessary; if required a parallel inhibition test can be performed.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards

are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5813:1983, *Water quality — Determination of dissolved oxygen — Iodometric method.*

ISO 5814:1990, *Water quality — Determination of dissolved oxygen — Electrochemical probe method.*

ISO 6060:1989, *Water quality — Determination of the chemical oxygen demand.*

ISO 9887:1992, *Water quality — Evaluation of the aerobic biodegradability of organic compounds in an aqueous medium — Semi-continuous activated sludge method (SCAS).*

ISO 9888:1991, *Water quality — Evaluation of the aerobic biodegradability of organic compounds in an aqueous medium — Static test (Zahn-Wellens method).*

ISO 10304-2:—<sup>1)</sup>, *Water quality — Determination of dissolved anions by liquid chromatography of ions — Part 2: Determination of bromide, chloride, nitrate, nitrite, orthophosphate and sulfite in waste water.*

1) To be published.