

SLOVENSKI STANDARD SIST EN ISO 15473:2020

01-november-2020

Kakovost tal - Navodilo za laboratorijsko preskušanje biološke razgradljivosti organskih spojin v tleh pri anaerobnih pogojih (ISO 15473:2002)

Soil quality - Guidance on laboratory testing for biodegradation of organic chemicals in soil under anaerobic conditions (ISO 15473:2002)

Bodenbeschaffenheit - Anleitung für Laboratoriumsuntersuchungen zur biologischen Abbaubarkeit von organischen Chemikalien im Boden unter angeroben Bedingungen (ISO 15473:2002)

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Qualité du sol - Lignes directrices relatives aux essais en laboratoire pour la biodégradation de produits chimiques organiques dans le sol sous conditions anaérobies (ISO 15473:2002) https://standards.iteh.av/catalog/standards/sist/c4a0101e-aa50-41i8-855e-c08c33feaca6/sist-en-iso-15473-2020

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ICS:

13.080.30 Biološke lastnosti tal Biological properties of soils

SIST EN ISO 15473:2020 en,fr,de

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April 2020

ICS 13.080.30

English Version

Soil quality - Guidance on laboratory testing for biodegradation of organic chemicals in soil under anaerobic conditions (ISO 15473:2002)

Qualité du sol - Lignes directrices relatives aux essais en laboratoire pour la biodégradation de produits chimiques organiques dans le sol sous conditions anaérobies (ISO 15473:2002) Bodenbeschaffenheit - Anleitung für Laboratoriumsuntersuchungen zur biologischen Abbaubarkeit von organischen Chemikalien im Boden unter anaeroben Bedingungen (ISO 15473:2002)

This European Standard was approved by CEN on 13 April 2020.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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EN ISO 15473:2020 (E)

European foreword

The text of ISO 15473:2002 has been prepared by Technical Committee ISO/TC 190 "Soil quality" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 15473:2020 by Technical Committee CEN/TC 444 "Environmental characterization of solid matrices" the secretariat of which is held by NEN.

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of an identical text or by endorsement, at the latest by October 2020, and conflicting national standards shall be withdrawn at the latest by October 2020.

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The text of ISO 15473:2002 has been approved by CEN as EN ISO 15473:2020 without any modification.

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INTERNATIONAL STANDARD

ISO 15473

First edition 2002-03-15

Soil quality — Guidance on laboratory testing for biodegradation of organic chemicals in soil under anaerobic conditions

Qualité du sol — Lignes directrices relatives aux essais en laboratoire pour la biodégradation de produits chimiques organiques dans le sol sous conditions anaérobies

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ISO 15473:2002(E)

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ISO 15473:2002(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 15473 was prepared by Technical Committee ISO/TC 190, Soil quality, Subcommittee SC 4, Biological methods.

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ISO 15473:2002(E)

Introduction

Organic chemicals can be introduced into the soil both intentionally and accidentally, after which they can degrade as a result of biological action. For chemicals which do degrade, the rate of degradation can vary considerably, depending not only on the molecular structure of the chemical, but also on soil conditions such as temperature, water and oxygen availability which influence microbial activity. The activity of microorganisms often plays a major role in degradative processes.

ISO 11266 [3] gives general guidelines for the selection and method of tests to determine the biodegradation of organic chemicals in soils under aerobic conditions.

It is necessary to have laboratory tests available to estimate the rate and extent of biodegradation under anaerobic conditions, and to assess the capability of soil to degrade organic chemicals under these conditions.

This International Standard gives guidance for the method of tests to determine the biodegradation of organic chemicals in soils under anaerobic conditions.

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