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**Kakovost tal - Navodilo za laboratorijsko preskušanje biološke razgradljivosti organskih spojin v tleh pri aerobnih pogojih (ISO 11266:1994)**

Soil quality - Guidance on laboratory testing for biodegradation of organic chemicals in soil under aerobic conditions (ISO 11266:1994)

Qualité du sol - Lignes directrices relatives aux essais en laboratoire pour la biodégradation de produits chimiques organiques dans le sol sous conditions aérobies (ISO 11266:1994)

**Ta slovenski standard je istoveten z: prEN ISO 11266**

[SIST EN ISO 11266:2020](https://standards.iteh.ai/catalog/standards/sist/ac803015-9062-4fec-a29f-6496551a4639/sist-en-iso-11266-2020)

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**ICS:**

13.080.30	Biološke lastnosti tal	Biological properties of soils
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# INTERNATIONAL STANDARD

**ISO**  
**11266**

First edition  
1994-09-15

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

*Qualité du sol — Guide relatif aux essais en laboratoire pour la  
biodégradation de produits chimiques organiques dans le sol sous  
conditions aérobies*

Document Preview

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Reference number  
ISO 11266:1994(E)

## ISO 11266:1994(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 11266 was prepared by Technical Committee ISO/TC 190, *Soil quality*, Subcommittee SC 4, *Biological methods*.

Annexe A of this International Standard is for information only.

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## Introduction

Organic chemicals may be introduced into the soil both intentionally and accidentally, after which they may, or may not, degrade biologically. 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 micro-organisms often plays a major role in degradative processes.

It is necessary to have laboratory tests available to estimate the rate and extent of biodegradation and thereby the persistence of organic chemicals in soil. Numerous laboratory methods are available for the estimation of aerobic biodegradation, but these differ considerably according to the specific circumstances, for example, soil type, temperature and incubation times.

This International Standard provides general guidelines for the selection and conduct of tests for determining the biodegradation of organic chemicals in aerobic soils.

At the time of writing, there is insufficient agreement on methodology for testing biodegradability in anaerobic soils for guidelines to be prepared.

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