



# SLOVENSKI STANDARD SIST EN ISO 9832:2003

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SIST EN ISO 9832:2001

Animal and vegetable fats and oils - Determination of residual technical hexane content (ISO 9832:2002)

Tierische und pflanzliche Fette und Öle - Bestimmung des Gehältes an technischem Resthexan (ISO 9832:2002)

Corps gras d'origines animale et végétale - Dosage de l'hexane technique résiduel (ISO 9832:2002)

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Ta slovenski standard je istoveten z: EN ISO 9832:2003

**ICS:**

67.200.10      Animal and vegetable fats and oils

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 9832**

July 2003

ICS 67.200.10

Supersedes EN ISO 9832:2000

English version

## Animal and vegetable fats and oils - Determination of residual technical hexane content (ISO 9832:2002)

Corps gras d'origines animale et végétale - Dosage de l'hexane technique résiduel (ISO 9832:2002)

Tierische und pflanzliche Fette und Öle - Bestimmung des Gehaltes an technischem Resthexan (ISO 9832:2002)

This European Standard was approved by CEN on 10 July 2003.

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 Management Centre 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 Management Centre 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

**EN ISO 9832:2003 (E)****Foreword**

The text of ISO 9832:2002 has been prepared by Technical Committee ISO/TC 34 "Agricultural food products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 9832:2003 by Technical Committee CEN/TC 307 "Oilseeds, vegetable and animal fats and oils and their by-products - Methods of sampling and analysis", the secretariat of which is held by AFNOR.

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 January 2004, and conflicting national standards shall be withdrawn at the latest by January 2004.

This document supersedes EN ISO 9832:2000.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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**Endorsement notice**

The text of ISO 9832:2002 has been approved by CEN as EN ISO 9832:2003 without any modifications.

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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 (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 661	1989	Animal and vegetable fats and oils - Preparation of test sample	EN ISO 661	1995

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# INTERNATIONAL STANDARD

**ISO**  
**9832**

Second edition  
2002-02-15

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## **Animal and vegetable fats and oils — Determination of residual technical hexane content**

*Corps gras d'origines animale et végétale — Dosage de l'hexane technique  
résiduel*

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Reference number  
ISO 9832:2002(E)

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## ISO 9832:2002(E)

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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.

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 9832 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 11, *Animal and vegetable fats and oils*.

This second edition cancels and replaces the first edition (ISO 9832:1992), of which it constitutes a minor revision to incorporate Amendment 1:1998.

Annex A of this International Standard is for information only.

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# Animal and vegetable fats and oils — Determination of residual technical hexane content

## 1 Scope

This International Standard specifies a method for the determination of the residual technical hexane content of animal and vegetable fats and oils (referred to as fats hereinafter).

The method is suitable for the determination of hexane contents between 10 mg and 1 500 mg per kilogram of fat.

The method is not applicable to marine oils

## 2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 661:1989, *Animal and vegetable fats and oils — Preparation of test sample*

## 3 Term and definition

For the purposes of this International Standard, the following term and definition applies.

### 3.1

#### **residual technical hexane content**

content of volatile hydrocarbons such as those remaining in fats following processing involving the use of hydrocarbon solvents, when determined by the method specified in this International Standard

NOTE The content is expressed as milligrams of hexane per kilogram of sample.

## 4 Principle

Desorption of volatile hydrocarbons by heating at 80 °C in a closed vessel after addition of an internal standard. Determination of the particular volatile hydrocarbons content of the headspace by gas chromatography using packed or capillary columns.

## 5 Reagents

Use only reagents of recognized analytical grade, unless otherwise stated, and distilled or demineralized water or water of equivalent purity.