



SLOVENSKI STANDARD SIST EN ISO 12228-2:2015

01-januar-2015

Nadomešča:
SIST EN ISO 12228:2000

Določevanje posameznih in celotnih sterolov - Plinska kromatografska metoda - 2. del: Oljna olja in olja iz oljčnih tropin (ISO 12228-2:2014)

Determination of individual and total sterols contents - Gas chromatographic method - Part 2: Olive and olive pomace oils (ISO 12228:2014)

Bestimmung der individuellen und der Gesamtsterine - Gaschromatographisches Verfahren - Teil 2: Oliven- und Oliventresteröle (ISO 12228:2014)

Détermination de la teneur en stérols individuels et totaux - Méthode par chromatographie en phase gazeuse - Partie 2: Huile d'olive et huile de grignons d'olive (ISO 12228:2014)

Ta slovenski standard je istoveten z: EN ISO 12228-2:2014

ICS:

67.200.10	Rastlinske in živalske maščobe in olja	Animal and vegetable fats and oils
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EUROPEAN STANDARD

EN ISO 12228-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2014

ICS 67.200.10

Supersedes EN ISO 12228:1999

English Version

Determination of individual and total sterols contents - Gas chromatographic method - Part 2: Olive and olive pomace oils (ISO 12228:2014)

Détermination de la teneur en stérols individuels et totaux -
Méthode par chromatographie en phase gazeuse - Partie 2:
Huile d'olive et huile de grignons d'olive (ISO 12228-2:2014)

Bestimmung der individuellen und der Gesamtsterine -
Gaschromatographisches Verfahren - Teil 2: Oliven- und
Oliventresteröle (ISO 12228-2:2014)

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN ISO 12228-2:2014) has been prepared by Technical Committee ISO/TC 34 "Food products" in collaboration with 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of an identical text or by endorsement, at the latest by April 2015, and conflicting national standards shall be withdrawn at the latest by April 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Endorsement notice

The text of ISO 12228-2:2014 has been approved by CEN as EN ISO 12228-2:2014 without any modification.

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INTERNATIONAL
STANDARD

ISO
12228-2

First edition
2014-10-01

**Determination of individual
and total sterols contents — Gas
chromatographic method —**

**Part 2:
Olive oils and olive pomace oils**

iTeh STANDARD PREVIEW
*Détermination de la teneur en stérols individuels et totaux —
Méthode par chromatographie en phase gazeuse —
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Partie 2: Huile d'olive et huile de grignons d'olive*

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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ISO 12228-2:2014(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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 34, *Food products*, Subcommittee SC 11, *Animal and vegetable fats and oils*.

This first edition of ISO 12228-2 cancels and replaces ISO 12228-2:1999, which has been technically revised.

ISO 12228 consists of the following parts, under the general title *Determination of individual and total sterols contents — Gas chromatographic method*:

- *Part 1: Animal and vegetable fats and oils*
- *Part 2: Olive oils and olive pomace oils*

Determination of individual and total sterols contents — Gas chromatographic method —

Part 2: Olive oils and olive pomace oils

1 Scope

This part of ISO 12228 specifies a procedure for the gas chromatographic determination of the contents and composition of sterols and triterpene dialcohols in olive and olive pomace oils. For the determination of the contents and composition of sterols in all other animal and vegetable fats and oils, ISO 12228-1 is to be used.

NOTE This part of ISO 12228 is technically identical to IOC Standard COI/T.20/Doc. No. 30 (November 2011).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

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3 Terms and definitions

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For the purposes of this document, the following terms and definitions apply.

3.1

composition of sterols

composition of individual sterols in the sample, beginning with cholesterol and ending with Δ^7 -avenasterol (see [Table 1](#)) under the conditions specified in this part of ISO 12228

Note 1 to entry: The composition is expressed as a percentage of all peak areas, normalized to 100 %.

3.2

total sterol content

mass fraction of the sum of all individual sterols, as determined in accordance with the method specified in this part of ISO 12228, beginning with cholesterol and ending with Δ^7 -avenasterol (see [Table 1](#)), divided by the mass of the test portion

Note 1 to entry: The content is expressed in milligrams per kilogram.

3.3

composition of triterpene dialcohols

composition of erythrodiol and uvaol in the sample under the conditions specified in this part of ISO 12228

Note 1 to entry: The composition is expressed as a percentage of all peak areas, beginning with cholesterol and ending with uvaol (see [Table 1](#)) under the conditions specified in this part of ISO 12228, normalized to 100 %.