



SLOVENSKI STANDARD
SIST EN ISO 660:2000/A1:2005

01-december-2005

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Animal and vegetable fats and oils - Determination of acid value and acidity -
Amendment 1: Precision data for virgin olive oil (ISO 660:1996/Amd 1:2003)

iTeh STANDARD PREVIEW

Tierische und pflanzliche Fette und Öle - Bestimmung der Säurezahl und der Azidität -
Änderung 1: Präzisionsdaten für natives Olivenöl (ISO 660:1996/Amd 1:2003)

[SIST EN ISO 660:2000/A1:2005](https://standards.iteh.ai/catalog/standards/sist/6c9fc453-af7c-4b8a-9ae7-35043d179af/sist-en-iso-660-2000-a1-2005)

Corps gras d'origines animale et végétale - Détermination de l'indice d'acide et de
l'acidité - Amendement 1: Données de fidélité relatives a l'huile d'olive vierge (ISO
660:1996/Amd 1:2003)

Ta slovenski standard je istoveten z: EN ISO 660:1999/A1:2005

ICS:

67.200.10 Üæ dâ • \ ^ / Å / Öæ ð \ ^ Animal and vegetable fats
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 660:1999/A1

August 2005

ICS 67.200.10

English Version

**Animal and vegetable fats and oils - Determination of acid value
and acidity - Amendment 1: Precision data for virgin olive oil
(ISO 660:1996/Amd 1:2003)**

Corps gras d'origines animale et végétale - Détermination
de l'indice d'acide et de l'acidité - Amendement 1: Données
de fidélité relatives à l'huile d'olive vierge (ISO
660:1996/Amd 1:2003)

Tierische und pflanzliche Fette und Öle - Bestimmung der
Säurezahl und der Azidität - Änderung 1: Präzisionsdaten
für natives Olivenöl (ISO 660:1996/Amd 1:2003)

This amendment A1 modifies the European Standard EN ISO 660:1999; it was approved by CEN on 28 July 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant 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 amendment 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

<https://standards.cen.eu/catalog/standards/sist/6c9fc453-af7c-4b8a-9ae7-330f43d178a1/sist-en-iso-660-2000-a1-2005>



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

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

EN ISO 660:1999/A1:2005 (E)**Foreword**

The text of ISO 660:1996/A1:2003 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 660:1999/A1:2005 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 February 2006, and conflicting national standards shall be withdrawn at the latest by February 2006.

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

Endorsement notice

The text of ISO 660:1996/A1:2003 has been approved by CEN as EN ISO 660:1999/A1:2005 without any modifications.

[SIST EN ISO 660:2000/A1:2005](https://standards.iteh.ai/catalog/standards/sist/6c9fc453-af7c-4b8a-9ae7-330f43d178a1/sist-en-iso-660-2000-a1-2005)

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INTERNATIONAL STANDARD

ISO 660

Second edition
1996-05-15

AMENDMENT 1
2003-03-15

Animal and vegetable fats and oils — Determination of acid value and acidity

AMENDMENT 1: Precision data for virgin olive oil

*Corps gras d'origines animale et végétale — Détermination de l'indice
d'acide et de l'acidité*
AMENDEMENT 1: Données de fidélité relatives à l'huile d'olive vierge

SIST EN ISO 660:2000/A1:2005

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Reference number
ISO 660:1996/Amd.1:2003(E)

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Published in Switzerland

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 2.

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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 660:1996 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 11, *Animal and vegetable fats and oils*.

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Animal and vegetable fats and oils — Determination of acid value and acidity

AMENDMENT 1: Precision data for virgin olive oil

Page 7

Add the following title to the existing table:

Table A.1 — Results of first interlaboratory tests

Add the following after this table:

A further series of interlaboratory tests, carried out by laboratories from 12 countries, using the reference method described in Clause 4, was conducted by the Food Standards Agency, London. The results (analysed in accordance with ISO 5725) are given in Table A.2.

Table A.2 — Results for Lampante virgin olive oil

| | Test 1 | Test 2 |
|--|--------|--------|
| No. of laboratories | 28 | 28 |
| No. of laboratories after eliminating outliers | 26 | 24 |
| Overall mean value, % | 3,80 | 19,55 |
| Standard deviation of repeatability, s_r | 0,03 | 0,09 |
| Standard deviation of reproducibility, s_R | 0,12 | 0,60 |
| Repeatability limit, r | 0,07 | 0,26 |
| Reproducibility limit, R | 0,33 | 1,67 |