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SIST EN ISO 17932:2007

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English Version

Animal and vegetable fats and oils - Determination of the
deterioration of bleachability index (DOBI) (ISO 17932:2005)

Corps gras d'origines animale et végétale - Détermination
de la détérioration de l'indice de blanchiment (DOBI) (ISO
17932:2005)

Tierische und pflanzliche Fette und Öle - Bestimmung der
Schädigung des Bleichindex (DOBI) (ISO 17932:2005)

This European Standard was approved by CEN on 26 July 2007.

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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 CEN Management Centre has the same status as the official versions.

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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

Foreword

The text of ISO 17932:2005 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 17932:2007 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of an identical text or by endorsement, at the latest by February 2008, and conflicting national standards shall be withdrawn at the latest by February 2008.

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Endorsement notice

The text of ISO 17932:2005 has been approved by CEN as EN ISO 17932:2007 without any modifications.

**Animal and vegetable fats and oils —
Determination of the deterioration of
bleachability index (DOBI)**

*Corps gras d'origines animale et végétale — Détermination de la
détérioration de l'indice de blanchiment (DDIB)*

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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.

ISO 17932 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 the deterioration of bleachability index (DOBI)

1 Scope

This International Standard specifies a method for the determination of the deterioration of bleachability index (DOBI) of crude palm oil. It is not applicable to oils with significant levels of chlorophylls.

2 Normative references

The following referenced document is indispensable for the application of this document. 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 (standards.iteh.ai)

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

3.1

DOBI value

ratio of the absorbance of the test portion at 446 nm to that at 269 nm, as determined using the method specified in this International Standard

NOTE DOBI value is expressed to one decimal place without a dimension.

4 Principle

The absorbance of a sample in solution is measured spectrometrically in a specified ultraviolet and visible wavelength range. The ratio of the absorbance at 446 nm to that at 269 nm measures the DOBI value. The test is a measure of the ease of refining crude palm oil. A low DOBI value may indicate difficulty in refining the oil to a low Lovibond colour.

5 Reagents

WARNING — Attention is drawn to the regulations which specify the handling of dangerous substances. Technical, organizational and personal safety measures shall be followed.

Use only reagents of recognized analytical grade, unless otherwise stated.

5.1 Solvent: isooctane (2,2,4-trimethylpentane), having an absorbance less than 0,12 at 230 nm and less than 0,05 at 250 nm against distilled water, measured in a cell of thickness 10 mm.

If isooctane is not available, cyclohexane or *n*-hexane having the characteristics specified above may be used instead.