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# INTERNATIONAL STANDARD



# 3216

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION · МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ · ORGANISATION INTERNATIONALE DE NORMALISATION

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## Oil of cassia

*Huile essentielle de  
cannelle de Chine*

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ISO 3216:1974

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## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3216 was drawn up by Technical Committee ISO/TC 54, *Essential oils*, and circulated to the Member Bodies in May 1973.

It has been approved by the Member Bodies of the following countries:

Australia	France	South Africa, Rep. of
Belgium	Italy	Spain
Bulgaria	Netherlands	Turkey
Czechoslovakia	Portugal	United Kingdom
Egypt, Arab Rep. of	Romania	Yugoslavia

No Member Body expressed disapproval of the document.

# Oil of cassia

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oil of cassia, with a view to facilitating the assessment of its quality.

## 2 REFERENCES

ISO/R 210, *Essential oils – Packing.*

ISO/R 211, *Essential oils – Labelling and marking containers.*

ISO 212, *Essential oils – Sampling.*

ISO/R 279, *Determination of the density and relative density of essential oils.*

ISO/R 280, *Determination of the refractive index of essential oils.*

ISO/R 875, *Determination of solubility of essential oils in ethanol.*

ISO 1242, *Essential oils – Determination of acid value.*

ISO 1279, *Essential oils – Determination of the content of carbonyl compounds – Hydroxylammonium chloride method.*

## 3 DEFINITION

**oil of cassia**: The oil obtained by steam distillation of the leaves, leaf stalks and young twigs of *Cinnamomum cassia* (Nees) Nees ex Blume, syn: *Cinnamomum aromaticum* C.G. Nees.

## 4 REQUIREMENTS

### 4.1 Appearance

Mobile liquid.

### 4.2 Colour

Reddish brown.

### 4.3 Odour

Recalling cinnamaldehyde.

### 4.4 Taste

Spicy and hot.

### 4.5 Relative density at 20/20 °C

Minimum : 1,052

Maximum : 1,070

### 4.6 Refractive index at 20 °C

Minimum : 1,600 0

Maximum : 1,614 0

### 4.7 Solubility in 70 % (V/V) ethanol at 20 °C

The solubility in 70 % (V/V) ethanol at 20 °C shall be 1 volume in 3 volumes to give a clear solution.

### 4.8 Acid value

Maximum : 15,0

### 4.9 Carbonyl compounds content, expressed as cinnamaldehyde.

Minimum : 80 %

## 5 SAMPLING

See ISO 212.

Minimum volume of final sample : 50 ml

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**6 METHODS OF TEST**

**6.1 Relative density at 20/20 °C**

See ISO/R 279.

**6.2 Refractive index at 20 °C**

See ISO/R 280.

**6.3 Solubility in 70 % (V/V) ethanol at 20 °C**

See ISO/R 875.

**6.4 Acid value**

See ISO 1242.

This determination shall be made in the presence of phenol red, in view of the presence of phenols.

**6.5 Carbonyl compounds content, expressed as cinnamaldehyde**

See ISO 1279.

Test portion : 1,2 to 1,5 g

Standing period : 15 min.

Relative molar mass (*M*) = 132,2

**7 PACKING, LABELLING AND MARKING**

See ISO/R 210 and ISO/R 211.

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