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INTERNATIONAL STANDARD



3214

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

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## Oil of *Litsea cubeba*

*Huile essentielle de Litsea cubeba*

First edition – 1974-08-15

**ITeH STANDARD PREVIEW**  
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[ISO 3214:1974](https://standards.iteh.ai/catalog/standards/sist/86d6715a-821f-4a2c-9f0e-e359262a2e36/iso-3214-1974)

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**Descriptors** : essential oils, litsea, specifications, materials specifications.

## 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 3214 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 :

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

No Member Body expressed disapproval of the document.

## Oil of *Litsea cubeba*

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#### 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oil of *Litsea cubeba*, 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 592, *Determination of the optical rotation of essential oils.*

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

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

#### 3 DEFINITION

**oil of *litsea cubeba*** : The oil obtained by steam distillation from the bark, the leaves and the fresh fruits of *Litsea cubeba* C.H. Persoon, syn : *Tetranthera polyantha* var. *citrata* Nees.

#### 4 REQUIREMENTS

##### 4.1 Appearance

Clear, mobile liquid.

##### 4.2 Colour

Pale yellow.

##### 4.3 Odour

Fresh, recalling citral.

##### 4.4 Relative density at 20/20 °C

Minimum : 0,880

Maximum : 0,892

##### 4.5 Refractive index at 20 °C

Minimum : 1,480 0

Maximum : 1,487 0

##### 4.6 Optical rotation at 20 °C

Range – 1° to + 10°

##### 4.7 Carbonyl compounds, expressed as citral

Minimum : 74 %

##### 4.8 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.

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### 5 SAMPLING

See ISO 212.

Minimum volume of final sample : 30 ml.

### 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 Optical rotation at 20 °C

See ISO/R 592.

#### 6.4 Carbonyl compounds content, expressed as citral

See ISO 1279.

Test portion : 1,2 to 2,0 g

Reaction time : 15 min, without heating

Relative molar mass ( $M$ ) = 152,2

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

See ISO/R 875.

### 7 PACKING, LABELLING AND MARKING

See ISO/R 210 and ISO/R 211.

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