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# INTERNATIONAL STANDARD



# 3215

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

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## Oils of nutmeg

*Huiles essentielles de noix  
muscade*

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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 3215 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.

# Oils of nutmeg

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oils of nutmeg, with a view to facilitating the assessment of their 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.*

## 3 DEFINITION

**oil of nutmeg** : The oil obtained by steam distillation of the kernels of the dried fruit of *Myristica fragrans* Houottuyn grown either in the Indonesian Archipelago or in the West Indies.

## 4 REQUIREMENTS

### 4.1 Appearance

Mobile liquid.

### 4.2 Colour

Colourless to pale yellow.

### 4.3 Odour

Spicy, pleasant, varying slightly according to origin.

### 4.4 Relative density at 20/20 °C

	Indonesian Archipelago	West Indies
Minimum . . . .	0,883	0,862
Maximum . . .	0,917	0,882

### 4.5 Refractive index at 20 °C

	Indonesian Archipelago	West Indies
Minimum . . . .	1,475 0	1,472 0
Maximum . . .	1,488 0	1,476 0

### 4.6 Optical rotation at 20 °C

	Indonesian Archipelago	West Indies
Range from :	+ 8°	+ 25°
to :	+ 25°	+ 40°

### 4.7 Solubility in 90 % (V/V) ethanol at 20 °C

The solubility in 90 % (V/V) ethanol at 20 °C shall be 1 volume in 5 volumes, sometimes with opalescence, and, for freshly distilled oils, 1 volume in 3 or 4 volumes.

## 5 SAMPLING

See ISO 212.

Minimum volume of final sample : 20 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 Solubility in 90 % (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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