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# INTERNATIONAL STANDARD



# 3525

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

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## Oil of amyris

*Huile essentielle d'amyris*

First edition — 1979-02-01

**ITeH STANDARD PREVIEW**  
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ISO 3525:1979

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**Descriptors** : essential oils, amyris, materials specifications, physical properties, optical properties, chemical properties, sensorial properties.

Price based on 2 pages

## 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 3525 was developed by Technical Committee ISO/TC 54, *Essential oils*, and was circulated to the member bodies in October 1977.

It has been approved by the member bodies of the following countries :

Austria  
Brazil  
Canada\*  
France

India  
Italy  
Korea, Rep. of  
Netherlands

ISO 3525:1979

South Africa, Rep. of  
Spain  
Turkey

\* with the exception of clause 4.9.

No member body expressed disapproval of the document.

# Oil of amyris

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oil of amyris, 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 280, *Essential oils — Determination of refractive index.*

ISO 592, *Essential oils — Determination of optical rotation.*<sup>1)</sup>

ISO 875, *Essential oils — Evaluation of miscibility with ethanol.*<sup>2)</sup>

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

ISO 3794, *Essential oils (containing tertiary alcohols) — Estimation of free alcohols content by determination of ester value after acetylation.*

## 3 DEFINITION

**oil of amyris** : The oil obtained by steam distillation of the wood of *Amyris balsamifera* Linnaeus grown in the area bordering on the Carribean Sea and the Gulf of Mexico.

## 4 REQUIREMENTS

### 4.1 Appearance

Clear, slightly viscous liquid.

### 4.2 Colour

Pale yellow to amber.

### 4.3 Odour

Characteristic, woody.

### 4.4 Relative density at 20/20 °C

Minimum : 0,946

Maximum : 0,978

### 4.5 Refractive index at 20 °C

Minimum : 1,505 0

Maximum : 1,510 0

### 4.6 Optical rotation at 20 °C

Range : + 10° to + 60°

### 4.7 Miscibility with 90 % (V/V) ethanol at 20 °C

The miscibility with 90 % (V/V) ethanol shall be 1 volume in 1 volume to give a clear solution, sometimes with opalescence on dilution.

### 4.8 Acid value

Maximum : 3,0

### 4.9 Ester value after acetylation

Minimum : 180

Maximum : 198

## 5 SAMPLING

See ISO 212.

Minimum volume of the final sample : 50 ml.

1) At present at the stage of draft. (Revision of ISO/R 592.)

2) At present at the stage of draft. (Revision of ISO/R 875.)

**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 280.

**6.3 Optical rotation at 20 °C**

See ISO 592.

**6.4 Miscibility with 90 % (V/V) ethanol at 20 °C**

See ISO 875.

**6.5 Acid value**

See ISO 1242.

**6.6 Ester value after acetylation**

See ISO 3794.

Saponification time : 3 h.

**7 PACKING, LABELLING AND MARKING**

See ISO/R 210 and ISO/R 211.

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