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# International Standard



# 4725

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

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## Oil of cedarwood, Texas (*Juniperus mexicana* Schiede)

*Huile essentielle de bois de cèdre, Texas (Juniperus mexicana Schiede)*

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Descriptors : essential oils, cedarwood, specifications.

## 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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 4725 was prepared by Technical Committee ISO/TC 54, *Essential oils*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

## Oil of cedarwood, Texas (*Juniperus mexicana* Schiede)

### 1 Scope and field of application

This International Standard specifies certain characteristics of oil of cedarwood, Texas (*Juniperus mexicana* Schiede) 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 279, *Essential oils — Determination of relative density at 20 °C (Reference method).*

ISO 280, *Essential oils — Determination of refractive index.*

ISO 592, *Essential oils — Determination of optical rotation.*

ISO 875, *Essential oils — Evaluation of miscibility in ethanol.*

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

ISO 7660, *Essential oils — Determination of ester value of oils containing difficult-to-saponify esters.*

### 3 Definition

**oil of cedarwood, Texas** (*Juniperus mexicana* Schiede) : The oil obtained by steam distillation of the wood of *Juniperus mexicana* Schiede, from the west of North America and Central America.

### 4 Requirements

#### 4.1 Appearance

Viscous liquid.

#### 4.2 Colour

Brown to reddish brown.

#### 4.3 Odour

Characteristic.

#### 4.4 Relative density at 20/20 °C

Minimum : 0,952  
Maximum : 0,966

#### 4.5 Refractive index at 20 °C

Minimum : 1,505 0  
Maximum : 1,508 0

#### 4.6 Optical rotation at 20 °C

Range from –50° to –32°

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

The miscibility in 90 % (V/V) ethanol at 20 °C shall be 1 volume in 5 volumes to give a clear solution.

#### 4.8 Alcohols content, expressed as cedrol

Minimum : 35 % (m/m)  
Maximum : 48 % (m/m)

#### 4.9 Cedrol content, by chromatography

Minimum : 20 % (m/m)

## 5 Sampling

See ISO 212.

Minimum volume of final sample : 25 ml

## 6 Methods of test

### 6.1 Relative density at 20/20 °C

See ISO 279.

### 6.2 Refractive index at 20 °C

See ISO 280.

### 6.3 Optical rotation at 20 °C

See ISO 592.

### 6.4 Miscibility in 90 % (V/V) ethanol at 20 °C

See ISO 875.

### 6.5 Alcohols content, expressed as cedrol

See ISO 3794.

The saponification shall be carried out according to ISO 7660.

### 6.6 Cedrol content, by chromatography

Determination of cedrol content by chromatography will form the subject of a future International Standard.

## 7 Packing, labelling and marking

See ISO/R 210 and ISO/R 211.

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