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# International Standard



# 4719

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

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## Oil of spike lavender [*Lavandula latifolia* (Linnaeus filis) Medikus]

*Huile essentielle d'aspic* [*Lavandula latifolia* (*Linnaeus filis*) *Medikus*]

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Descriptors : essential oils, lavender, material specification.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (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 authorized 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 4719 was developed by Technical Committee ISO/TC 54, *Essential oils*, and was circulated to the member bodies in March, 1982.

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

Australia	France	<a href="https://standards.iteh.ai/catalog/standards/sist/162401e7-f029-4572-b061-e2338c2d0040/iso-4719-1983">ISO 4719:1983</a>
Austria	India	Netherlands
Canada	Iraq	Portugal
China	Italy	South Africa, Rep. of
Egypt, Arab Rep. of	Mexico	USSR

No member body expressed disapproval of the document.

# Oil of spike lavender [*Lavandula latifolia* (Linnaeus fil.) Medikus]

## 1 Scope and field of application

This International Standard specifies certain characteristics of oil of spike lavender, 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 709, *Essential oils — Determination of ester value.*

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

ISO 1242, *Essential oils — Determination of the 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 spike lavender** : The product obtained by steam distillation of the flowering tops of *Lavandula latifolia* (Linnaeus fil.) Medikus.

## 4 Requirements

### 4.1 Appearance

Clear, mobile liquid.

### 4.2 Colour

Almost colourless to pale greenish-yellow.

### 4.3 Odour

Characteristic, rough and lightly cineoleous, more or less camphoraceous.

### 4.4 Relative density at 20/20 °C

Minimum : 0,895

Maximum : 0,917

### 4.5 Refractive index at 20 °C

Minimum : 1,462 0

Maximum : 1,468 0

### 4.6 Optical rotation at 20 °C

Range from  $-7^{\circ}$  to  $+1^{\circ}$

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

Not more than 3 volumes of 70 % (V/V) ethanol shall be required to give a clear solution with 1 volume of essential oil; sometimes opalescence is observed on dilution.

### 4.8 Acid value

Maximum : 3,0

### 4.9 Ester value

Minimum : 3

Maximum : 15

### 4.10 Ester value after acetylation

Minimum : 130

Maximum : 200

### 4.11 1,8-cineole, linalol and camphor contents

To be added later.

## 5 Sampling

See ISO 212.

Minimum volume of final sample : 50 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 70 % (V/V) ethanol at 20 °C**

See ISO 875.

**6.5 Acid value**

See ISO 1242.

**6.6 Ester value**

See ISO 709.

Test portion : 5 g

Hydrolysis time : 1 h

**6.7 Ester value after acetylation**

See ISO 3794.

Test portion : 1 g

Acetylation time : 16 h

Hydrolysis time : 3 h

**6.8 1,8-cineole, linalol and camphor contents**

A method will form the subject of ISO 7733.

**7 Packing, labelling and marking**

See ISO/R 210 and ISO/R 211.

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