
INTERNATIONAL STANDARD



3515

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Oil of French lavender

Huile essentielle de lavande de France

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ISO 3515:1976

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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 3515 was drawn up by Technical Committee ISO/TC 54, *Essential oils*, and was circulated to the Member Bodies in August 1974.

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It has been approved by the Member Bodies of the following countries :

[ISO 3515:1976](https://standards.iteh.ai/catalog/standards-its/iso/iso-3515-1976)

Belgium	Germany	South Africa, Rep. of
Bulgaria	India	Spain
Chile	Italy	Turkey
Czechoslovakia	Netherlands	Yugoslavia
France	Portugal	

No Member Body expressed disapproval of the document.

Oil of French lavender

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oil of French 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/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.*

ISO/R 709, *Determination of ester value and calculation of ester content of essential oils.*

ISO 875, *Essential oils – Evaluation of miscibility with ethanol.*¹⁾

ISO 1242, *Essential oils – Determination of the acid value.*

ISO . . . , *Essential oils – Evaluation of free linalol content by gas chromatography.*²⁾

3 DEFINITION

oil of French lavender : The oil obtained by steam distillation from the freshly cut flowering tops of *Lavandula angustifolia* P. Miller, growing wild or cultivated in France, but excluding the essential oils called "Vesubie", "Maillette" and "Matheronne".

4 REQUIREMENTS

4.1 Appearance

Clear, mobile liquid.

4.2 Colour

Pale yellow, slightly amber-tinged.

4.3 Odour

Characteristic, woody, recalling the odour of the flowering tops of the plant.

4.4 Relative density at 20/20 °C

Minimum : 0,876

Maximum : 0,892

4.5 Refractive index at 20 °C

Minimum : 1,457 0

Maximum : 1,464 0

4.6 Optical rotation at 20 °C

Range from – 11° to – 5°

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

The solubility in 70 % (V/V) ethanol at 20 °C shall be 1 volume in 5 volumes to give a clear solution.

4.8 Acid value

Maximum : 1,0

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

2) In preparation.

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4.9 Ester value

Minimum : 100 — corresponding to an ester content of 35 % expressed as linalyl acetate (relative molar mass : $M = 196,3$).

Maximum : 170 — corresponding to an ester content of 60 % expressed as linalyl acetate.

4.10 Free linalol content

(To be completed 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/R 279.

6.2 Refractive index at 20 °C

See ISO 280.

6.3 Optical rotation at 20 °C

See ISO 592.

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

See ISO 875.

6.5 Acid value

See ISO 1242.

6.6 Ester value

See ISO/R 709.

Hydrolysis time : 1 h.

6.7 Free linalol content

See ISO . . .

7 PACKING, LABELLING AND MARKING

See ISO/R 210 and ISO/R 211.

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