
INTERNATIONAL STANDARD



3054

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

Oil of lavandin abrialis

Huile essentielle de lavandin abrialis

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ISO 3054:1976

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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 3054 was drawn up by Technical Committee ISO/TC 54, *Essential oils*, and was circulated to the Member Bodies in January 1973.

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

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Australia	France	Spain
Belgium	Japan	Turkey
Bulgaria	New Zealand	Yugoslavia
Czechoslovakia	Portugal	
Egypt, Arab Rep. of	South Africa, Rep. of	

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Canada
Netherlands

Oil of lavandin abrialis

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oil of lavandin abrialis, 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 acid value.*

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

3 DEFINITION

oil of lavandin abrialis: The oil obtained by steam distillation from the freshly cut flowering tops of a particular clone of lavandin (*Lavandula angustifolia* P. Miller x *Lavandula latifolia* (Linnaeus F.) Medikus) cultivated in the south of France.

4 REQUIREMENTS

4.1 Appearance

Clear, mobile liquid.

4.2 Colour

Pale yellow to amber yellow.

4.3 Odour

Resembling lavender, with a camphoraceous note.

4.4 Relative density at 20/20 °C

Minimum : 0,885

Maximum : 0,897

4.5 Refractive index at 20 °C

Minimum : 1,459 0

Maximum : 1,466 0

4.6 Optical rotation at 20 °C

Range from – 7° to – 2°

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

The solubility in 70 % (V/V) ethanol shall be 1 volume in 4 volumes to give a clear solution.

4.8 Acid value

Maximum : 1,0

4.9 Ester value

Minimum : 80 – corresponding to an ester content of 28 % expressed as linalyl acetate.

Maximum : 105 – corresponding to an ester content of 37 % expressed as linalyl acetate.

4.10 Free linalol content

(To be inserted later.)

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

2) In preparation.

5 SAMPLING

See ISO 212.

Minimum volume of the 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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