
INTERNATIONAL STANDARD



3519

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Oil of lime, obtained by distillation

Huile essentielle de lime, obtenue par distillation

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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 3519 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 :

Belgium
Bulgaria
Czechoslovakia
France
Germany

India
Italy
Netherlands
Portugal
South Africa, Rep. of

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Spain

Turkey

Yugoslavia

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No Member Body expressed disapproval of the document.

Oil of lime, obtained by distillation

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oil of lime, obtained by distillation, 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 1279, *Essential oils – Determination of carbonyl compounds content – Hydroxylammonium chloride method.*

ISO 4715, *Essential oils – Determination of residue on evaporation.*¹⁾

3 DEFINITION

oil of lime, obtained by distillation: The oil obtained by steam distillation of the fruit of *Citrus aurantifolia* (Christmann) Swingle, Mexican type.²⁾

4 REQUIREMENTS

4.1 Appearance

Clear, mobile liquid.

4.2 Colour

Colourless to pale yellow.

4.3 Odour

Characteristic of the oil but different from that of the fresh fruit.

4.4 Relative density at 20/20 °C

Minimum : 0,856

Maximum : 0,865

4.5 Refractive index at 20 °C

Minimum : 1,474 0

Maximum : 1,478 0

4.6 Optical rotation at 20 °C

Range from + 34° to + 45°

4.7 Residue on evaporation

Maximum : 2,5 %

4.8 Carbonyl compounds content, expressed as citral

Maximum : 1,5 %

1) At present at the stage of draft.

2) The group of true limes (acid, small fruits), to the exclusion of other *Citrus* often included, incorrectly, in this species.

ISO 3519-1976 (E)

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 Residue on evaporation

See ISO 4715.

6.5 Carbonyl compounds content, expressed as citral

See ISO 1279.

Test portion : 10 g.

Standing time : 15 min.

Relative molar mass of citral : $M = 152,2$.

7 PACKING, LABELLING AND MARKING

See ISO/R 210 and ISO/R 211.

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