
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.

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

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

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.