
INTERNATIONAL STANDARD



3044

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

Oil of *Eucalyptus citriodora*

Huile essentielle d'Eucalyptus citriodora

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[ISO 3044:1974](#)

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Descriptors : essential oils, eucalyptus, specifications, materials specifications.

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 3044 was drawn up by Technical Committee ISO/TC 54, *Essential oils*, and circulated to the Member Bodies in December 1972.

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

Australia	Italy	Thailand:1974
Belgium	Japan	Turkey
Brazil	Netherlands	United Kingdom
Czechoslovakia	Portugal	Yugoslavia
Egypt, Arab Rep. of	Romania	
France	South Africa, Rep. of	

No Member Body expressed disapproval of the document.

This International Standard is one of a number of ISO publications dealing with oil of Eucalyptus. Other documents in the series are:

ISO/R 770, *Oil of Eucalyptus globulus*.

ISO 3065, *Oil of Australian Eucalyptus, 80 to 85 % cineole content*.

ISO . . . , *Rectified oil of Eucalyptus globulus*.¹⁾

1) In preparation.

Oil of *Eucalyptus citriodora*

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1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oil of *Eucalyptus citriodora*, 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/R 280, *Determination of the refractive index of essential oils.*

ISO/R 592, *Determination of the optical rotation of essential oils.*

ISO/R 875, *Determination of solubility of essential oils in ethanol.*

ISO 1271, *Essential oils – Determination of carbonyl compounds content – Free hydroxylamine method.*

3 DEFINITION

oil of *Eucalyptus citriodora*: The oil obtained by steam distillation of the leaves and terminal branches of *Eucalyptus citriodora*, W. J. Hooker.

4 REQUIREMENTS

4.1 Appearance

Mobile liquid.

4.2 Colour

Almost colourless, pale yellow or greenish-yellow.

4.3 Odour

Resembling citronellal.

4.4 Relative density at 20/20 °C

Minimum : 0,858

Maximum : 0,877

4.5 Refractive index at 20 °C

Minimum : 1,450 0

Maximum : 1,459 0

4.6 Optical rotation at 20 °C

Range from -2° to $+4^{\circ}$

4.7 Solubility in 80 % (V/V) ethanol at 20 °C

The solubility in 80 % (V/V) ethanol at 20 °C shall be 1 volume in 2 volumes to give a clear solution.

ISO 3044-1974 (E)

4.8 Carbonyl compounds content, expressed as citronellal

Minimum : 70 % (m/m)

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/R 280.

6.3 Optical rotation at 20 °C

See ISO/R 592.

6.4 Solubility in 80 % (V/V) ethanol at 20 °C

See ISO/R 875.

6.5 Carbonyl compounds content, expressed as citronellal.

See ISO 1271.

Test portion : 0,5 to 0,6 g.

Standing period : 30 min

Relative molar mass (M) = 154,25

7 PACKING, LABELLING AND MARKING

See ISO/R 210 and ISO/R 211.

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