
International Standard



770

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

Oil of *Eucalyptus globulus*

Huile essentielle d'Eucalyptus globulus

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Descriptors : essential oils, eucalyptus, material 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 770 was developed by Technical Committee ISO/TC 54, *Essential oils*, and was circulated to the member bodies in December 1979.

It has been approved by the member bodies of the following countries :

Australia	France	Portugal
Austria	India	South Africa, Rep. of
Brazil	Italy	Sri Lanka
Bulgaria	Korea, Rep. of	USSR
Canada	Netherlands	
Chile	Philippines	

No member body expressed disapproval of the document.

This International Standard cancels and replaces ISO Recommendation R 770-1968, of which it constitutes a technical revision.

Oil of *Eucalyptus globulus*

1 Scope and field of application

This International Standard specifies certain characteristics of oil of *Eucalyptus globulus* Labillardière, 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 279, *Essential oils — Determination of relative density at 20 °C (Reference method).*

ISO 280, *Essential oils — Determination of refractive index.*

ISO 592, *Essential oils — Determination of optical rotation.*¹⁾

ISO 875, *Essential oils — Evaluation of miscibility in ethanol.*²⁾

ISO 1202, *Essential oils — Determination of 1,8-cineole content.*³⁾

3 Definition

oil of *Eucalyptus globulus* : The oil obtained by steam distillation of the leaves and young twigs recently cut of *Eucalyptus globulus* Labillardière.

4 Requirements

4.1 Appearance

Clear.

4.2 Colour

Almost colourless to pale yellow.

4.3 Odour

Characteristic, recalling cineole.

4.4 Relative density at 20/20 °C

Minimum : 0,906

Maximum : 0,925

4.5 Refractive index at 20 °C

Minimum : 1,459 0

Maximum : 1,467 0

4.6 Optical rotation at 20 °C

Range from 0 to + 10°

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

1 volume of the oil shall not require more than 5 volumes of 70 % (V/V) ethanol at 20 °C to obtain a clear solution.

1) At present at the stage of draft. (Revision of ISO/R 592.)

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

3) At present at the stage of draft. (Revision of ISO/R 1202.)