
International Standard



4724

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

Oil of cedarwood, Virginia (*Juniperus virginiana* Linnaeus)

Huile essentielle de bois de cèdre, Virginie (Juniperus virginiana Linnaeus)

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Descriptors: essential oils, cedarwood, specifications.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 4724 was prepared by Technical Committee ISO/TC 54, *Essential oils*.

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Oil of cedarwood, Virginia (*Juniperus virginiana* Linnaeus)

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1 Scope and field of application

This International Standard specifies certain characteristics of oil of cedarwood, Virginia, 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.*

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

3 Definition

oil of cedarwood, Virginia: The oil obtained by steam distillation of the wood of *Juniperus virginiana* Linnaeus, growing in the south-east of North America.

4 Specifications

4.1 Appearance

Fairly viscous liquid, sometimes containing crystals.

4.2 Colour

Almost colourless to pale yellow.

4.3 Odour

Characteristic, woody, pleasantly sweet and balsamic, recalling the wood of the tree.

4.4 Relative density at 20/20 °C

Minimum: 0,941

Maximum: 0,970

4.5 Refractive index at 20 °C

Minimum: 1,504 0

Maximum: 1,508 0

4.6 Optical rotation at 20 °C

Minimum: – 38°

Maximum: – 14°

4.7 Miscibility in 95 % (V/V) ethanol at 20 °C

1 volume of the oil shall not require more than 5 volumes of 95 % (V/V) ethanol at 20 °C to give a clear solution.

4.8 Cedrol content by chromatography

Maximum: 14 % (m/m)

5 Sampling

See ISO 212.

Minimum volume of the final sample: 25 ml

6 Methods of test

6.1 Relative density at 20/20 °C

See ISO 279.

6.2 Refractive index at 20 °C

See ISO 280.

6.3 Optical rotation at 20 °C

See ISO 592.

6.4 Miscibility in 95 % (V/V) ethanol at 20 °C

See ISO 875.

6.5 Cedrol content by chromatography

A method for the determination of the cedrol content of essential oils of cedarwood Virginia, Texas and East Africa, by gas chromatography will form the subject of a future International Standard.

7 Packing, labelling and marking

See ISO/R 210 and ISO/R 211.

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