INTERNATIONAL STANDARD

ISO 4730

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Oil of *Melaleuca*, terpinen-4-ol type (Tea Tree oil)

Huile essentielle de Melaleuca, *type terpinén-4-ol (huile essentielle de «Tea Tree»)*



Reference number ISO 4730:2004(E)

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Foreword

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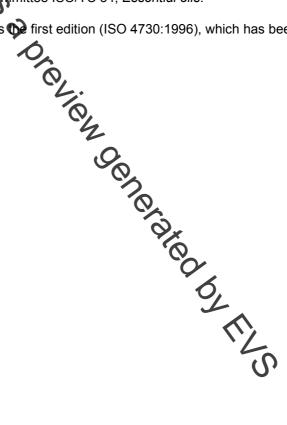
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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4730 was prepared by Technical Committee ISO/TC 54, Essential oils.

This second edition cancels and replaces the first edition (ISO 4730:1996), which has been technically revised.



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Oil of Melaleuca, terpinen-4-ol type (Tea Tree oil)

1 Scope

This International Standard specifies certain characteristics of the oil of *Melaleuca*, terpinen-4-ol type (Tea Tree oil), the order to facilitate assessment of its quality.

2 Normative reference

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/TR 210, Essential oils — General rates for packaging, conditioning and storage

ISO/TR 211, Essential oils — General rules for labelling and marking of containers

ISO 212, Essential oils - Sampling

ISO 279, Essential oils — Determination of relative density at 20 $^{\circ}$ 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

ISO 11024-1, Essential oils — General guidance on chromatographic profiles — Part 1: Preparation of chromatographic profiles for presentation in standards

ISO 11024-2, Essential oils — General guidance on chromatographic profiles — Part 2: Utilization of chromatographic profiles of samples of essential oils

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

oil of *Melaleuca*, terpinen-4-ol type Tea Tree oil

essential oil obtained by steam distillation of the foliage and terminal branchlets of *Melaleuca alternifolia* (Maiden et Betche) Cheel, *Melaleuca linariifolia* Smith, and *Melaleuca dissitiflora* F. Mueller, as well as other species of *Melaleuca* provided that the oil obtained conforms to the requirements given in this International Standard

NOTE For information on the CAS number, see ISO/TR 21092.

Requirements Δ 4.1 Appearance , mobile liquid. Colour Colourless to pale yellow. 4.3 Odou Characteristic. at 20 °C, d_{20}^{20} Relative densi 4.4 Minimum: 0.885 Maximum: 0,906

4.5 Refractive index at 20 °C

Minimum: 1,475 0

Maximum: 1,482 0