

INTERNATIONAL STANDARD

ISO
9841

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Oil of Hyssop (*Hyssopus officinalis* Linnaeus)

*Huile essentielle d'hysopé (*Hyssopus officinalis* Linnaeus)*

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ISO 9841:1991

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Reference number
ISO 9841:1991(E)

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. Each 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9841 was prepared by Technical Committee ISO/TC 54, *Essential oils*.

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Oil of Hyssop (*Hyssopus officinalis* Linnaeus)

1 Scope

This International Standard specifies certain characteristics of essential oil of hyssop (*Hyssopus officinalis* Linnaeus), with a view to facilitating the assessment of its quality.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/R 210:1961, *Essential oils — Packing.*

ISO/R 211:1961, *Essential oils — Labelling and marking containers.*

ISO 212:1973, *Essential oils — Sampling.*

ISO 279:1981, *Essential oils — Determination of relative density at 20 °C (Reference method).*

ISO 280:1976, *Essential oils — Determination of refractive index.*

ISO 592:1981, *Essential oils — Determination of optical rotation.*

ISO 709:1980, *Essential oils — Determination of ester value.*

ISO 1242:1973, *Essential oils — Determination of the acid value.*

ISO 1271:1983, *Essential oils — Determination of carbonyl value — Free hydroxylamine method.*

3 Definition

For the purposes of this International Standard, the following definition applies.

3.1 oil of hyssop: The oil obtained by steam distillation of the leaves of *Hyssopus officinalis* Linnaeus.

4 Requirements

4.1 Appearance

Clear, mobile liquid.

4.2 Colour

Colourless.

4.3 Odour

Characteristic.

4.4 Relative density at 20/20 °C

Minimum: 0,917

Maximum: 0,965

4.5 Refractive index at 20 °C

Minimum: 1,473 0

Maximum: 1,486 0

4.6 Optical rotation at 20 °C

Between – 25° and – 6°

4.7 Acid value

Less than or equal to 2,0.

4.8 Ester value

Minimum: 5

Maximum: 36

4.9 Carbonyl value

Minimum: 170, corresponding to a carbonyl compounds content of 46 % (*m/m*) expressed as pinocamphone

Maximum: 210, corresponding to a carbonyl compounds content of 57 % (*m/m*) expressed in pinocamphone

4.10 Typical chromatogram

Evaluate the quantities of the following characteristic constituents of the essential oil on the chromatographic profile obtained. The proportion of these constituents, calculated in relation to the sum of all peak areas and assuming identical response factors, shall be as follows:

	Minimum (%)	Maximum (%)
α -Pinene	1	1,5
β -Pinene	13,5	23
Sabinene	2	3
Myrcene	1	2
Limonene	1	4
Myrtenylmethylether	1	3
Pinocamphone	5,5	17,5
β -Bourbonene	1,5	2
<i>iso</i> -Pinocamphone	34,5	50
β -Caryophyllene	1	3
Alloaromadendrene	1,5	2
Germacrene-D	2	3
γ -Cardinene	2	2,5
Spathulenol	0,5	2

4.11 Flash point

59 °C (for information only).

5 Sampling

See ISO 212.

Minimum volume of test sample: 50 ml

NOTE 1 This volume is sufficient to carry out all the tests specified in this International Standard at least once.

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 Acid value

See ISO 1242.

6.5 Ester value

See ISO 709.

6.6 Carbonyl value

See ISO 1271.

Test portion: 1 g

Reflux time: 3 h

6.7 Flash point

Guidance on methods for the determination of flash point will be given in a future Technical Report.

7 Packaging, labelling and marking

See ISO/R 210 and ISO/R 211.

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