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# International Standard



# 4729

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

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## Oil of pimento leaf [*Pimenta dioica* (Linnaeus) Merrill]

*Huile essentielle de feuilles de piment type Jamaïque (Pimenta dioica (Linnaeus) Merrill)*

First edition — 1984-11-01

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## 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 4729 was prepared by Technical Committee ISO/TC 54, *Essential oils*.

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Oil of pimento leaf [*Pimenta dioica* (Linnaeus) Merrill]

1 Scope and field of application

This International Standard specifies certain characteristics of oil of pimento leaf of Jamaica and India, 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 875, *Essential oils — Evaluation of miscibility in ethanol.*

ISO 1272, *Essential oils — Determination of phenols content.*

3 Definition

**oil of pimento leaf** : The oil obtained by steam distillation of the leaves of *Pimenta dioica* (Linnaeus) Merrill.

4 Requirements

4.1 Appearance

Mobile liquid.

4.2 Colour

Jamaica	India
Orange-yellow to dark brown	Orange-yellow to reddish brown

4.3 Odour

Jamaica	India
Characteristic, dry woody, recalling that of eugenol	Characteristic, dry woody, warm spicy aromatic odour reminiscent of clove leaf oil and crude eugenol

4.4 Taste

Spicy, warm and slightly burning.

4.5 Relative density at 20/20 °C

Minimum : 1,036
Maximum : 1,053

4.6 Refractive index at 20 °C

Minimum : 1,531 0
Maximum : 1,536 0

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

One volume of the essential oil should not require more than two volumes of 70 % (V/V) ethanol, at 20 °C, to give a clear solution.

4.8 Phenols content

Jamaica	India
Minimum ... 65 %	70 %

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 279.

6.2 Refractive index at 20 °C

See ISO 280.

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

See ISO 875.

6.4 Phenols content

See ISO 1272.

7 Packing, labelling and marking

See ISO/R 210 and ISO/R 211.

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