
International Standard



3061

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

Oil of black pepper

Huile essentielle de poivre noir

First edition — 1979-09-15

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[ISO 3061:1979](#)

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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 3061 was developed by Technical Committee ISO/TC 54, *Essential oils*, and was circulated to the member bodies in December 1978.

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

Australia
Austria
Brazil
Egypt, Arab, Rep. of
France

Italy
Korea, Rep. of
Netherlands
Portugal
Romania

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South Africa, Rep. of
Sri Lanka
USSR

The member body of the following country expressed disapproval of the document on technical grounds :

Canada

Oil of black pepper

1 Scope and field of application

This International Standard specifies certain characteristics of oil of black pepper, 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/R 279, *Determination of the density and relative density of essential oils.*

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

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

ISO 709, *Essential oils — Determination of ester value.*¹⁾

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

3 Definition

oil of black pepper : The oil obtained by steam distillation of the whole or broken unripe fruits of *Piper nigrum* Linnaeus.

4 Requirements

4.1 Appearance

Clear, mobile liquid.

4.2 Colour

Almost colourless to bluish-green.

4.3 Odour

Characteristic, recalling that of whole pepper.

4.4 Taste

Mild, lacking the pungency of the spice.

4.5 Relative density at 20/20 °C

Minimum : 0,870

Maximum : 0,890

4.6 Refractive index at 20 °C

Minimum : 1,480 0

Maximum : 1,492 0

4.7 Optical rotation at 20 °C

Range from $- 16^{\circ}$ to $+ 4^{\circ}$

4.8 Miscibility with 95 % (V/V) ethanol at 20 °C

The miscibility with 95 % (V/V) at 20 °C ethanol shall be 1 volume in 3 volumes to give a clear solution.

4.9 Ester value

Maximum : 11

5 Sampling

See ISO 212.

Minimum volume of the final sample : 25 ml.

1) At present at the stage of draft. (Revision of ISO/R 709.)

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

6 Methods of test

6.1 Relative density at 20/20 °C

See ISO/R 279.

6.2 Refractive index at 20 °C

See ISO 280.

6.3 Optical rotation at 20 °C

See ISO 592.

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

See ISO 875.

6.5 Ester value

See ISO/R 709.

Use phenol red as indicator.

7 Packing, labelling and marking

See ISO/R 210 and ISO/R 211.

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