
INTERNATIONAL STANDARD



3524

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

Oil of cinnamon leaf

Huile essentielle de feuilles de cannelier

First edition — 1977-02-15

ITEH STANDARD PREVIEW
(standards.iteh.ai)

ISO 3524:1977

<https://standards.iteh.ai/catalog/standards/sist/10ea06f4-551c-4297-95ab-4c22ddc9093b/iso-3524-1977>

UDC 668.525.53.004.1

Ref. No. ISO 3524-1977 (E)

Descriptors : essential oils, cinnamon, materials specifications.

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 3524 was drawn up by Technical Committee ISO/TC 54, *Essential oils*, and was circulated to the member bodies in August 1974.

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

Belgium	Germany	South Africa, Rep. of
Bulgaria	India	Spain
Czechoslovakia	Italy	Turkey
France	Netherlands	Yugoslavia

No member body expressed disapproval of the document.

Oil of cinnamon leaf

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oil of cinnamon leaf 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 875, *Essential oils — Evaluation of miscibility with ethanol.*¹⁾

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

ISO 1279, *Essential oils — Determination of carbonyl compounds content — Hydroxylammonium chloride method.*

3 DEFINITION

oil of cinnamon leaf : The oil obtained by steam distillation of the leaves of *Cinnamomum zeylanicum* Blume.

The principal areas of production are Sri Lanka, Seychelles, South India, Madagascar and Comores.

4 REQUIREMENTS

4.1 Appearance

Clear, mobile liquid.

4.2 Colour

Reddish brown to dark brown.

4.3 Odour

Characteristic, spicy, recalling that of cinnamaldehyde.

4.4 Relative density at 20/20 °C

	Seychelles	Sri Lanka	South India	Madagascar and Comores
Minimum :	1,042	1,037	1,037	1,035
Maximum :	1,059	1,053	1,053	1,055

4.5 Refractive index at 20 °C

Minimum : 1,530 0

Maximum : 1,540 0

4.6 Optical rotation at 20 °C

Range from – 2,5° to + 2°

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

The solubility in 70 % (V/V) ethanol shall be 1 volume in 2 volumes to give a clear solution, sometimes with opalescence on dilution.

1) At present at the stage of draft. (Revision of ISO/R 875-1968.)

4.8 Phenols content

	Seychelles	Sri Lanka	South India	Madagascar and Comores
Minimum % (V/V) :	85	75	80	70
Maximum % (V/V) :	95	85	95	95

4.9 Carbonyl compounds content, expressed as cinnamaldehyde

	Seychelles	Sri Lanka	South India	Madagascar and Comores
Maximum :	7 %	5 %	4 %	7 %

6.2 Refractive index at 20 °C

See ISO 280.

6.3 Optical rotation at 20 °C

See ISO 592.

6.4 Solubility in 70 % (V/V) ethanol at 20 °C

See ISO 875.

6.5 Phenols content

See ISO 1272.

6.6 Carbonyl compounds content, expressed as cinnamaldehyde

See ISO 1279.

Mass of sample : 5 g
Standing time : 15 min
 $M = 132,2$

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/R 279.

7 PACKING, LABELLING AND MARKING

See ISO/R 210 and ISO/R 211.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 3524:1977

<https://standards.iteh.ai/catalog/standards/sist/10ea06f4-551c-4297-95ab-4c22ddc9093b/iso-3524-1977>