
International Standard



3714

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

Oil of pennyroyal

Huile essentielle de menthe pouliot

First edition — 1980-06-15

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UDC 668.527.656

Ref. No. ISO 3714-1980 (E)

Descriptors : essential oils, spearmint, specifications, sensorial properties, physical properties, chemical properties.

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 3714 was developed by Technical Committee ISO/TC 54, *Essential oils*, and was circulated to the member bodies in June 1979.

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

Australia	Italy	Thailand
Canada	Philippines	USSR
Egypt, Arab Rep. of	Portugal	
France	South Africa, Rep. of	

No member body expressed disapproval of the document.

Oil of pennyroyal

1 Scope and field of application

This International Standard specifies certain characteristics of oil of pennyroyal, 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)¹⁾.*

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

ISO 592, *Essential oils — Determination of optical rotation.²⁾*

ISO 875, *Essential oils — Determination of miscibility with ethanol.³⁾*

ISO 1271, *Essential oils — Determination of carbonyl compounds — Free hydroxylamine method.*

3 Definition

oil of pennyroyal : The oil obtained by steam distillation of the flowering tops of *Mentha pulegium* Linnaeus.

4 Requirements

4.1 Appearance

Liquid.

4.2 Colour

Almost colourless to amber yellow.

4.3 Odour

Characteristic, herbal, minty.

4.4 Relative density at 20/20 °C

Minimum : 0,930

Maximum : 0,944

4.5 Refractive index at 20 °C

Minimum : 1,480 0

Maximum : 1,490 0

4.6 Optical rotation at 20 °C

Within the range + 15° to + 24°.

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

The miscibility with 70 % (V/V) ethanol at 20 °C shall be 1 volume in 3 volumes to give a clear solution.

4.8 Carbonyl value

Minimum : 295 — corresponding to 80 % of carbonyl compounds of relative molecular mass $M_r = 152,2$

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 279.

1) At present at the stage of draft. (Revision of ISO/R 279.)

2) At present at the stage of draft. (Revision of ISO/R 592.)

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