
INTERNATIONAL STANDARD



3064

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

Oil of petitgrain, Paraguay

Huile essentielle de Petitgrain, Paraguay

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Descriptors : essential oils, petitgrain, materials specifications.

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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 3064 was drawn up by technical committee ISO/TC 54, *Essential oils*, and was circulated to the member bodies in January 1973.

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

Austria
Belgium
Brazil
Czechoslovakia
Egypt, Arab Rep. of
France

Italy
Japan
Netherlands
Portugal
South Africa, Rep. of
Spain

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Thailand

Turkey

United Kingdom

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No member body expressed disapproval of the document.

Oil of petitgrain, Paraguay

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of oil of petitgrain, Paraguay, 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.* <https://standards.iso.org/standards/sist/406cb5b4-e329-4e2f-96e5-0d04395cf98c/iso-3064-1977>

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

ISO/R 709, *Determination of ester value and calculation of ester content of essential oils.*

ISO 875, *Essential oils – Evaluation of miscibility with ethanol.*¹⁾

ISO 1242, *Essential oils – Determination of acid value.*

3 DEFINITION

oil of petitgrain, Paraguay: The oil obtained by steam distillation of only the leaves and twigs of *Citrus aurantium* (Linnaeus) subsp. *aurantium*, naturalized or cultivated in Paraguay.

4 REQUIREMENTS

4.1 Appearance

Clear liquid.

4.2 Colour

Pale yellow.

4.3 Odour

Characteristic, strong, pleasant, recalling linalol and linalyl acetate.

4.4 Relative density at 20/20 °C

Minimum : 0,884

Maximum : 0,892

4.5 Refractive index at 20 °C

Minimum : 1,457 0

Maximum : 1,465 0

4.6 Optical rotation at 20 °C

Range from – 3,5° to 0°

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

The solubility in 70 % (V/V) ethanol shall be 1 volume in 4 volumes to give a clear solution. Sometimes a light opalescence can be observed on further dilution.

4.8 Acid value

Maximum : 2

4.9 Ester value

Minimum : 110 – corresponding to an ester content of 39 % expressed as linalyl acetate (relative molar mass : $M = 196,3$).

Maximum : 170 – corresponding to an ester content of 60 % expressed as linalyl acetate.

5 SAMPLING

See ISO 212.

Minimum volume of final sample : 50 ml.

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

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

See ISO 875.

6.5 Acid value

See ISO 1242.

6.6 Ester value

See ISO/R 709.

Saponification time : 1 h.

7 PACKING, LABELLING AND MARKING

See ISO/R 210 and ISO/R 211.

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