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# International Standard



# 3520

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

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## Oil of bergamot, Italy

*Huile essentielle de bergamote, Italie*

First edition — 1980-07-01

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Descriptors : essential oils, bergamot, Italy, sensorial properties, chemical properties, physical properties.

Price based on 2 pages

## 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 3520 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
Bulgaria	Philippines	USSR
Canada	Portugal	
France	South Africa, Rep. of	

No member body expressed disapproval of the document.

# Oil of bergamot, Italy

## 1 Scope and field of application

This International Standard specifies certain characteristics of oil of bergamot, Italy, 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 356, *Essential oils — Preparation of test sample.*

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

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

ISO 875, *Essential oils — Evaluation of miscibility in ethanol.*

ISO 1242, *Essential oils — Determination of the acid value.*

ISO 3794, *Essential oils (containing tertiary alcohols) — Estimation of free alcohols content by determination of ester value after acetylation.*

ISO 4715, *Essential oils — Quantitative evaluation of residue on evaporation.*

ISO 4735, *Oil of <sup>is citrus</sup> lemon — Ultraviolet spectrophotometric analysis.*

Determination of CD value by us:

## 3 Definition

**oil of bergamot, Italy** : The oil extracted without heating, by mechanic extraction treatments, from the fresh pericarp of the fruit of *Citrus aurantium* (Linnaeus) subsp. *bergamia* (Wight and Arnott) Engler, picked in Italy.

## 4 Requirements

### 4.1 Appearance

Clear, mobile liquid, sometimes with a solid deposit.

### 4.2 Colour

Green to greenish yellow.

### 4.3 Odour

Characteristic, pleasant, cool, recalling that of the fresh pericarp of bergamot.

### 4.4 Relative density at 20/20 °C

Minimum : 0,876

Maximum : 0,884

### 4.5 Refractive index at 20 °C

Minimum : 1,464 0

Maximum : 1,468 0

### 4.6 Optical rotation at 20 °C

Range from + 8° to + 30°

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.)

4) At present at the stage of draft.