
International Standard



855

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

Oil of lemon, Italy, obtained by expression

Huile essentielle de citron, Italie, obtenue par expression

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Descriptors : essential oils, lemon, materials specifications.

Foreword

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

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

Austria	France	South Africa, Rep. of
Brazil	India	Spain
Bulgaria	Italy	USSR
Canada	Philippines	
Chile	Portugal	

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

Netherlands

This International Standard cancels and replaces ISO Recommendation R 855-1968, of which it constitutes a technical revision.

Oil of lemon, Italy, obtained by expression

1 Scope and field of application

This International Standard specifies certain characteristics of oil of lemon, Italy, obtained by expression, 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 592, *Essential oils — Determination of optical rotation.*

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

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

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

ISO 4735, *Oils of citrus — Determination of CD value by ultraviolet spectrophotometric analysis.*

3 Definition

oil of lemon, Italy, obtained by expression : The oil extracted, without heating, by mechanical treatment from the fresh pericarp of the fruit of *Citrus limon* (Linnaeus) N.L. Burman, grown in Italy.

4 Requirements

4.1 Appearance

Mobile clear liquid, which may become cloudy by lowering the temperature.

4.2 Colour

Pale yellow to pale greenish-yellow.

4.3 Odour

Characteristic of fresh pericarp of lemon.

4.4 Relative density, at 20/20 °C

Minimum : 0,849

Maximum : 0,858

4.5 Refractive index at 20 °C

Minimum : 1,474 0

Maximum : 1,476 0

4.6 Optical rotation at 20 °C

Range from + 57° to + 65°

4.7 Residue on evaporation

Minimum : 1,6 %

Maximum : 3,9 %

4.8 Acid value

Maximum : 3,0

4.9 Carbonyl value

Minimum : 11

Maximum : 17

4.10 CD value

Minimum : 0,450

Maximum : 0,950

Dilution of 0,25 g of oil in 100 ml of 95 % (V/V) ethanol