INTERNATIONAL STANDARD

ISO 3140

Second edition 1990-12-15

Oil of sweet orange [Citrus sinensis (Linnaeus) Obsbeck] obtained by mechanical treatment

iTeh Stuile essentielle d'orange douce [Citrus sinensis (Linnaeus) Obsbeck] obtenue par des procédés mécaniques (standards iteh ai)

ISO 3140:1990 https://standards.iteh.ai/catalog/standards/sist/d2479520-cc43-4d59-b446-0f00169f8e7f/iso-3140-1990



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member bodies casting a vote.

International Standard ISO 3140 was prepared by Technical Committee 1 ISO/TC 54, Essential oils.

This second edition cancels and replaces the literal 4 diffion (ISO 3140:1976), of which it constitutes at echnical revision standards/sist/d2479520-cc43-4d59-b446-0f00169f8e7f/iso-3140-1990

© ISO 1990

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Oil of sweet orange [Citrus sinensis (Linnaeus) Obsbeck] obtained by mechanical treatment

Scope

International Standard specifies characteristics of oil of sweet orange [Citrus sinensis (Linnaeus) Obsbeck], obtained by mechanical treatment, with a view to facilitating the assessment of its quality.

iTeh STANDAR

Normative references

The following standards contain provisions which, through reference in this text, constitute provisions 3140:1990 Requirements of this International Standard://sAththes.time.joftanubliandards/sist/d2479520-cc43-4d59-b446cation, the editions indicated were valid. Allo stant-7 fiso-34-10-1 Appearance dards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/R 210:1961, Essential oils — Packing.

ISO/R 211:1961, Essential oils - Labelling and marking containers.

ISO 212:1973, Essential oils — Sampling.

ISO 279:1981, Essential oils — Determination of relative density at 20 °C (Reference method).

ISO 280:1976, Essential oils - Determination of refractive index.

ISO 592:1981. Essential oils — Determination of optical rotation.

ISO 1279:1984. Essential oils — Determination of carbonyl value — Hydroxylammonium chloride method.

ISO 4715:1978. Essential oils — Quantitative evaluation of residue on evaporation.

Definition

For the purposes of this International Standard, the following definition applies.

oil of sweet orange, obtained by mechanical treatment: The oil obtained without heating, by mechanical treatment, from the pericarp of the fruit of Citrus sinensis (Linnaeus) Obsbeck and, in the case of the Guinea-type oil, from the varieties limo-viridis A. Chevalier and djalonis A. Chevalier. (standards.iteh.ai)

Clear, mobile liquid, which may become cloudy when chilled.

4.2 Colour

Yellow to reddish yellow.

4.3 Odour

Characteristic of orange peel.

4.4 Relative density at 20/20 °C

Minimum: 0,842. Maximum: 0,850.

4.5 Refractive index at 20 °C

Minimum: 1,4700. Maximum: 1,476 0.

4.6 Optical rotation at 20 °C

Range from $+ 94^{\circ}$ to $+ 99^{\circ}$.

4.7 Residue on evaporation

Minimum: 1,0 %.

Maximum: 5,0 %.

4.8 Carbonyl compounds content, expressed

as decanal

Minimum: 0,9 %.

Maximum: 3,1 %.

5 Sampling

See ISO 212.

Minimum volume of test sample: 50 ml.

NOTE 1 This volume is enough to carry out all the tests

specified in this International Standard at least once.

6 Methods of test

6.1 Relative density of 20/20 °C

See ISO 279.

6.2 Refractive index at 20 °C

See ISO 280.

6.3 Optical rotation at 20 °C

See ISO 592.

6.4 Residue of evaporation

See ISO 4715.

Test portion: 5 g.

Evaporation time: 5 h.

6.5 Carbonyl compounds content, expressed

as decanal

See ISO 1279.

Test portion: 10 g.

Standing time: 15 min.

7 Packaging, labelling and marking

(standards.iteh.ai) See ISO/R 210 and ISO/R 211.

ISO 3140:1990

https://standards.iteh.ai/catalog/standards/sist/d2479520-cc43-4d59-b446-0f00169f8e7f/iso-3140-1990

iTeh STANDA

UDC 665.526.444

Descriptors: essential oils, oranges, specifications.

Price based on 2 pages