INTERNATIONAL STANDARD

ISO 280

Second edition
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Essential oils — Determination of refractive index

Huiles essentielles — Détermination de l'indice de réfraction

Reference number
ISO 280:1998(E)

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 280 was prepared by Technical Committee ISO/TC 54, *Essential oils*.

This second edition cancels and replaces the first edition (ISO 280:1976), which has been technically revised.

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Essential oils — Determination of refractive index

1 Scope

This International Standard specifies a method for the determination of the refractive index of essential oils.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 356, *Essential oils — Preparation of test samples*.

3 Term and definition

For the purposes of this International Standard, the following term and definition apply.

3.1
refractive index, n_D^t
ratio of the sine of the angle of incidence to the sine of the angle of refraction, when a ray of light of defined wavelength passes from air into the essential oil kept at a constant temperature

NOTE The wavelength specified is 589,3 nm ± 0,3 nm corresponding to the D_1 and D_2 lines of the sodium spectrum.

4 Principle

According to the type of instrument used, either the angle of refraction is directly measured or the limit of total reflection is observed, the oil being maintained under conditions of isotropism and transparency.

5 Reagents

5.1 **Standard products**, of refractometry grade, to adjust the refractometer, as follows.