INTERNATIONAL STANDARD

ISO 279

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Essential oils — Determination of relative density at 20 °C — Reference method

Huiles essentielles — Détermination de la densité relative à 20 °C — Méthode de référence

Reference number
ISO 279:1998(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 279 was prepared by Technical Committee ISO/TC 54, *Essential oils*.

This second edition cancels and replaces the first edition (ISO 279:1981), which has been technically revised.

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Essential oils — Determination of relative density at 20 °C — Reference method

1 Scope

This International Standard specifies the reference method for the determination of the relative density of essential oils at 20 °C.

NOTE If it is necessary to perform the test at a different temperature on account of the nature of the essential oil, the temperature should be mentioned in the International Standard appropriate to the essential oil concerned. The average correction in the region of 20 °C is from 0,000 7 to 0,000 8 per degree Celsius.

2 Normative reference

This following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subseqent amendments to, or revisions of, this publication 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 IEC and ISO editions maintain registers of currently valid International Standards.

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

3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

3.1
relative density at 20 °C
ratio of the mass of a given volume of the oil at 20 °C to the mass of an equal volume of distilled water at 20 °C

NOTE This quantity is dimensionless and its symbol is d_{20}^{20}.

3.2
absolute density at 20 °C of an essential oil
ratio of the mass of a given volume of the oil at 20 °C to the same volume

NOTE This quantity is expressed in grams per millilitre.

4 Principle

Equal volumes of the essential oil and water, at 20 °C, are weighed successively in a pyknometer.