



International Standard

ISO 9842

Essential oil of rose (*Rosa x damascena* Miller)

Huile essentielle de rose (Rosa x damascena Miller)

**Third edition
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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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

This third edition cancels and replaces the second edition (ISO 9842:2003), which has been technically revised.

The main changes are as follows:

- the structure of the document has been changed;
- “oil” has been replaced by “essential oil” throughout the whole document, including the title;
- in [Table 1](#), the temperature has been changed from 20 °C to 25 °C for relative density and refractive index and optical rotation measurements;
- in [Table 2](#), additional compounds and ranges, [(8Z)-Heptadecene, (9Z)-Nonadecene and Methyleugenol], have been added;
- in [Table 2](#), the “Turkey peasant type” has been deleted;
- in [Annex A](#), the operating conditions and chromatograms obtained on the polar phase have been modified;
- in [Annex A](#), the statement related to a polar column recommended against an apolar column has been moved from typical chromatograms on the polar phase to typical chromatogram on the apolar phase;
- in [Annex A](#), the operating conditions and chromatograms obtained on the apolar phase have been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Essential oil of rose (*Rosa x damascena* Miller)

1 Scope

This document specifies certain characteristics of the essential oil of rose (*Rosa x damascena* Miller) cultivated in Turkey, Morocco and Bulgaria, of the Rosaceae family, in order to facilitate assessment of its quality.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 210, *Essential oils — General requirements and guidelines for packaging, conditioning and storage*

ISO 211, *Essential oils — General requirements for labelling and marking of 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 1041, *Essential oils — Determination of freezing point*

ISO 11024 (all parts), *Essential oils — General guidance on chromatographic profiles*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

essential oil of rose

essential oil obtained by water-steam distillation of the fresh flowers of *Rosa x damascena* Miller, of the Rosaceae family, cultivated in Turkey, Morocco and Bulgaria

Note 1 to entry: For information on CAS number, see ISO/TR 21092.

4 Requirements (all origins)

4.1 General requirements

Essential oil of rose (*Rosa x damascena* Miller) shall meet the requirements and follow the test methods given in [Table 1](#).