



International
Standard

ISO 24255

**Essential oil of clary sage (*Salvia
sclarea* L.) "prewilted" French type
and "chopped" French type**

*Huile essentielle de sauge sclarée (*Salvia sclarea* L.) type «
préfanée» France et type «vert broyée» France*

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Foreword

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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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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

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

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.

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Essential oil of clary sage (*Salvia sclarea* L.) "prewilted" French type and "chopped" French type

1 Scope

This document specifies certain characteristics of the essential oil of clary sage (*Salvia sclarea* L.) "prewilted" French type and "chopped" French type with a view to facilitating the 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 875, *Essential oils — Evaluation of miscibility in ethanol*

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

<https://standards.iteh.ai/catalog/standards/iso/22c1a97b-9b38-4d93-a4ca-652cd958295d/iso-24255-2025>

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 clary sage "prewilted" French type

essential oil, obtained by steam distillation from the dried flowering stems of *Salvia sclarea* L., of the Lamiaceae family, grown mainly in France

Note 1 to entry: For information on the characterization of this essential oil, see ISO/TR 21092.

3.2

essential oil of clary sage "chopped" French type

essential oil, obtained by steam distillation from the fresh flowering stems of *Salvia sclarea* L., of the Lamiaceae family, grown mainly in France

Note 1 to entry: For information on the characterization of this essential oil, see ISO/TR 21092.

4 Requirements

4.1 General requirements

Essential oil of clary sage “prewilted” French type and “chopped” French type shall meet the requirements and test methods given in [Table 1](#).

Table 1 — Requirements for essential oil of clary sage oil “prewilted” French type and “chopped” French type

Characteristics	Requirements		ISO test method
	“prewilted” French type	“chopped” French type	
Appearance	liquid		—
Colour	Colourless to brownish yellow, usually pale yellow		—
Odour	Sweet herbal, floral amber-like	Sweet herbal, amber-like	—
Relative density at 20 °C d_{20}^{20}	0,895 – 0,908	0,890 – 0,902	ISO 279
Refractive index at 20 °C	1,456 to 1,466	1,456 – 1,466	ISO 280
Optical rotation at 20 °C	Between –24° and –10°	Between –20° and –7°	ISO 592
Miscibility in ethanol 80 % (volume fraction), at 20 °C	No more than three volumes of ethanol 80 % (volume fraction) shall be used to obtain a clear solution with one volume of essential oil. Sometimes opalescence can be observed.		ISO 875

4.2 Chromatographic profile

Carry out the analysis of the essential oil by gas chromatography. Determine the chromatographic profile in accordance with the ISO 11024 series. In the chromatogram obtained, identify the representative and characteristic components shown in [Table 2](#). The proportions of these components, indicated by the integrator, shall be as shown in [Table 2](#). This constitutes the chromatographic profile of the essential oil.

Table 2 — Chromatographic profiles

Component ^a	“prewilted” French type		“chopped” French type	
	Minimum %	Maximum %	Minimum %	Maximum %
Linalool	6,5	15,0	13,0	24,0
Linalyl acetate	62,0	78,0	54,0	71,0
α -Terpineol	0,1	1,2	1,0	5,0
Germacrene D	1,5	12,0	1,2	8,0
Sclareol	0,3	2,5	0,3	2,5

^a For the naming of the components, see ISO/TS 24106.

NOTE The chromatographic profile specified in this table is required, contrary to typical chromatograms given for information in [Annex A](#) (see [Figures A.1-1](#), [A.1-2](#), [A.2-1](#) and [A.2-2](#)).

5 Flash point

Information on the flash point is given in [Annex B](#).

6 Sampling

Sampling shall be performed in accordance with ISO 212. The minimum volume of the test sample is 50 ml.

NOTE This volume allows each of the tests specified in this document to be carried out at least once.