



NHR ORGANIC OILS
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IFRA 51 Conformity Certificate **Organic Yarrow Essential Oil** *(Achillea millefolium)*

This Certificate assesses the conformity of a fragrance mixture with IFRA Standards and provides restrictions for use as necessary. It is based only on those materials subject to IFRA Standards for the toxicity endpoint(s) described in each Standard.

SCOPE OF THE CERTIFICATE:

Product: YARROW ESSENTIAL OIL
Product INCI: Achillea millefolium Oil
CAS NUMBER: 8022-07-9
EINECS number: 289-030-6
Manufacturing method: Steam Distillation

We certify that the above mixture, YARROW ESSENTIAL OIL is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), up to and including the 51th Amendment to the IFRA Standards (published 30 June 2023), provided it is used in the following category(ies) at a maximum concentration level of:

Maximum level of use of the YARROW (*Achillea millefolium*) ESSENTIAL OIL (%) in the IFRA classes:

<i>IFRA Category(ies)</i> <i>[see Table 12 in Guidance for the use of IFRA Standards for details]</i>	Level of use (%)*	<i>IFRA Category(ies)</i> <i>[see Table 12 in Guidance for the use of IFRA Standards for details]</i>	Level of use (%)*
<i>Category 1</i>	NR	<i>Category 7 A</i>	NR
<i>Category 2</i>	NR	<i>Category 7 B</i>	NR
<i>Category 3</i>	NR	<i>Category 8</i>	NR
<i>Category 4</i>	NR	<i>Category 9</i>	NR
<i>Category 5 A</i>	NR	<i>Category 10 A</i>	NR
<i>Category 5 B</i>	NR	<i>Category 10 B</i>	NR
<i>Category 5 C</i>	NR	<i>Category 11 A</i>	NR
<i>Category 5 D</i>	NR	<i>Category 11 B</i>	NR
<i>Category 6</i>	NR	<i>Category 12</i>	NR

* maximum use level

ADDITIONAL INFORMATION:

Information about presence and concentration of fragrance ingredients subject to IFRA Standards in the fragrance mixture YARROW ESSENTIAL OIL is as follows:

Materials under the scope of IFRA Standards:	CAS number(s):	Recommendation from IFRA Standard:	Concentration (%) in the batch:
Limonene*	138-86-3 7705-14-8 5989-27-5 5989-54-8	Specification: DERMAL SENSITIZATION	0,72 %

Additional Comments:

* Oxidation products of Limonene, especially hydroperoxides, have been demonstrated to be potent sensitizers.

d-, l- and dl-Limonene and natural products containing substantial amounts of it, should only be used when the level of (hydro)peroxides is kept to the lowest practical level, for instance by adding antioxidants at the time of production. The addition of 0.1% BHT or α -Tocopherol for example has shown great efficiency. Such products should have a peroxide value of less than 20 millimoles per liter, determined according to the IFRA analytical method for the determination of the peroxide value, which can be downloaded from the IFRA website (www.ifrafragrance.org).

* Oxidation products of Linalool, especially hydroperoxides, have been demonstrated to be potent sensitizers.

d-, l- and dl-Linalool and natural products containing substantial amounts of it, should only be used when the level of (hydro)peroxides is kept to the lowest practical level, for instance by adding antioxidants at the time of production. The addition of 0.1% BHT or α -Tocopherol for example has shown great efficiency. Such products should have a peroxide value of less than 20 millimoles per liter, determined according to the IFRA analytical method for the determination of the peroxide value, which can be downloaded from the IFRA website (www.ifrafragrance.org).

Disclaimer: This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents. This certificate is the responsibility of the fragrance supplier issuing it. It has not been prepared or endorsed by IFRA in anyway.