



NHR ORGANIC OILS  
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*Certificate of Analysis & Gas Chromatography*  
**Organic Red Mandarin Essential Oil**  
*(Citrus reticulata)*

**Batch number:** 070125-5

**Origin:** Italy

**1. IDENTIFICATION DE LA SUBSTANCE / IDENTIFICATION OF THE SUBSTANCE**

|                                       |   |
|---------------------------------------|---|
| <b>Nom du produit / Product name:</b> | Huile essentielle de MANDARINE ROUGE BIO Italie / Essential oil of ORGANIC RED MANDARIN Italy |
| <b>Législation :</b>                  | Substance 100% pure et naturelle / Matter 100% pure and natural                               |
| <b>Nom INCI / INCI name :</b>         | Citrus reticula peel oil  |

**2. CARACTERISTIQUES ORGANOLEPTIQUES ET PHYSIQUES/PHYSICAL AND ORGANOLEPTIC CHARACTERISTICS**

| <b>CRITÈRES / CRITERIA</b>       | <b>SPECIFICATIONS</b>                             | <b>CONFORMITÉ / CONFORMITY</b> |
|----------------------------------|---|--------------------------------|
| Densité à 20°C / Density at 20°C | 0,850   | Conforme / Compliant           |
| Indice de réfraction à 20 °C /   | 1,4750  | Conforme / Compliant           |
| Pouvoir rotatoire                | 78  | Conforme / Compliant           |
| Apparence / Appearance           | Rouge liquide /Red liquid                         | Conforme / Compliant           |
| Odeur / Odor                     | Frais, typique du fruit / Fresh, typical of fruit | Conforme / Compliant           |

**3. ANALYSES CHROMATOGRAPHIQUES / CHROMATOGRAPHIC ANALYSIS**

| <b>COMPOSANTS</b> | <b>%</b> |
|-------------------|----------|
| alpha-PINENE      | 1,87     |
| alpha-THUYENE     | 0,68     |
| beta-PINENE       | 1,68     |
| SABINENE          | 0,19     |
| beta-MYRCENE      | 1,47     |
| LIMONENE          | 75,17    |
| beta-PHELLANDRENE | 0,06     |
| gamma-TERPINENE   | 16,00    |
| p-CYMENE          | 0,33     |
| TERPINOLENE       | 0,28     |
| OCTANAL           | 0,13     |
| DECANAL           | 0,04     |
| LINALOL           | 0,05     |
| NERAL             | 0,02     |
| alpha-TERPINEOL   | 0,05     |
| GERANIAL          | 0,02     |
| geranyle acetate  | 0,41     |
| alpha-FARNESENE   | 0,08     |
| alpha-SINENSAL    | 0,12     |