

## ANALYSIS

**Product Name :** MANDARIN OIL  
**Aceite esencial de Mandarina**  
**Botanical name :** Citrus reticulata  
**Batch number :** 06/2021  
**Origin :** Italia

### Analysis features :

Agilent GC System 7890A - Column : HP INNOWAX polaire : 60 m ´ 0,25 mm ´ 0,5 µm

Temperature program : 8 min to 95 °C – 4 °C/min till 190 °C - 29 min to 190°C

Carrier gas H2 : 30 psis/FID. Injector : split. Sample : 0.1 µl without dilution

The compounds of the essential oils are identified by retention times.

% Are calculated from the peak areas given by the GC / FID without the use of a correction factor.

### Physical characteristics:

|                            |       |
|----------------------------|-------|
| Density at 20°C            | 0,848 |
| Refractive index at 20°C   | 1,474 |
| Optical rotation at a 20°C | 73,1  |

### Production date:

junio 2021

## GC Results

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| COMPONENTS                    | %            | Standard  |
|-------------------------------|--------------|-----------|
| a-PINENE                      | 2,40         | 2 - 3     |
| b-PINENE                      | 1,75         | 1,5 - 2   |
| SABINENE                      | 0,55         |           |
| b-MYRCENE                     | 1,51         | 1,5 - 2   |
| LIMONENE                      | 73,03        | 65 - 75   |
| g-TERPINENE                   | 18,09        | 16 - 22   |
| Trans-b-OCIMENE               | 0,08         |           |
| p-CYMENE                      | 0,26         |           |
| TERPINOLENE                   | 0,10         |           |
| Cis-1,2-EPOXYDE DE LIMONENE   | 0,00         |           |
| Trans-1,2-EPOXYDE DE LIMONENE | 0,02         |           |
| a-COPAENE                     | 0,05         |           |
| DECANAL                       | 0,12         |           |
| LINALOL                       | 0,38         |           |
| NERAL                         | 0,01         |           |
| a-TERPINEOL                   | 0,16         |           |
| DODECANAL                     | 0,02         |           |
| GERMACRENE D                  | 0,03         |           |
| GERANIAL                      | 0,02         |           |
| a-FARNESENE                   | 0,04         |           |
| ACETATE DE GERANYLE           | 0,01         |           |
| d-CADINENE                    | 0,03         |           |
| Trans-CARVEOL                 | 0,01         |           |
| b-SINENSAL                    | 0,02         |           |
| a-SINENSAL                    | 0,08         | 0,1 - 0,5 |
| <b>TOTAL</b>                  | <b>99,00</b> |           |