



## Technical Data Sheet




Kosher & Halal Certified  
Updated Oct 27, 2020 REV 02

### PERSIAN LIME OIL / TAHITI LIME OIL

#### General Description

The essential oil obtained by centrifuging of the oil-water emulsion resulting from treating the Persian or Tahiti lime fruit (*Citrus latifolia* Tanaka) in a rasping or puncturing machine under a water spray.

#### Sensorial Characteristics

-  **Aspect:** Clear liquid which often shows a waxy precipitate.
-  **Color:** Brownish green to dark green.
-  **Odor:** Fresh, citrus, reminiscent of Persian lime peel.

### Physical and Chemical Characteristics

	SPECIFICATIONS
Refractive Index @ 20°C	1.480 - 1.4855
Optical Rotation @ 20°C	Not measurable
Specific Gravity @ 25/25oC	0.865 - 0.877
Aldehydes as Citral %	3.1 - 5.2
Residue on evaporation %	10.0 -15.0

#### Packing

Iron drums with an interior epoxy-phenolic varnish with a net weight of 25, 50 or 181.5 Kg.

#### Recommendations

Storage at ambient temperature and keep in shadow.

#### Shelf life

Two years from production date.



## GC Specifications

COMPOUND	AVG	MIN	MAX
$\alpha$ Thujene	0.323	0.223	0.423
$\alpha$ Pinene	1.642	1.172	2.123
Camphene	0.074	0.054	0.094
Methylheptenone	0.042	0.012	0.122
Sabinene	2.483	2.084	2.884
$\beta$ Pinene	15.172	12.240	18.109
Myrcene	1.350	1.230	1.470
$\alpha$ -Phellandrene	0.109	0.089	0.119
1,4- Cineole+ $\delta$ -3-Carene	0.011	0.001	0.020
$\alpha$ -Terpinene	0.288	0.238	0.338
p-Cymene	0.395	0.275	0.515
d-Limonene+1,8-cineole	56.468	52.000	58.838
$\gamma$ -Terpinene	10.530	8.716	12.340
Terpinolene+Nonanal	0.365	0.305	0.425
Linalool	0.180	0.090	0.270
Cintronellal	0.031	0.011	0.041
Terpinen-4-ol	0.083	0.033	0.133
$\alpha$ Terpineol	0.251	0.121	0.381
Decanal	0.147	0.067	0.227
Nerol	0.084	0.000	0.194
Neral	1.160	0.790	1.530
Geraniol	0.085	0.000	0.611
Geranial	1.825	1.100	2.540
Undecanal	0.018	0.080	0.028
$\delta$ -Elemene	0.319	0.149	0.489
Neryl Acetate	0.726	0.152	1.300
Geranyl Acetate	0.144	0.104	0.184
Dodecanal	0.077	0.000	0.167
cis- $\alpha$ -Bergamotene	0.047	0.017	0.077
$\beta$ -Caryophyllene	0.607	0.046	0.837
trans- $\alpha$ -Bergamotene	0.679	0.489	0.869
$\beta$ -Farnesene	0.071	0.051	0.091
$\alpha$ -Humulene	0.105	0.075	0.135
$\beta$ -Copaene	0.219	0.169	0.269
t,t, $\alpha$ -Farnesene	0.832	0.602	1.062
$\beta$ -Bisabolene	0.990	0.640	1.340
HEADS	89.98	81.68	98,08
OXYGENATED	5.26	3.73	6.76
SESQUITERPENES	4.75	3.25	6.22

GC Conditions:30 m. long, 0.32 mm diameter, 1 $\mu$ m thickness of HP-5 on fused silica capillary column.  
Temperatures: 4 min at 75°C then 4°C/min to 200°C staying 1 min, then 8°C/min to 200°C.