

# CERTIFICATE OF ANALYSIS

## GC ANALYSIS

### PRODUCT DETAILS

**PRODUCT NAME: PINE, ESSENTIAL OIL ORGANIC**

**LOT NUMBER: 007288**

PRODUCT INCI: PINUS SYLVESTRIS LEAF OIL

CAS NUMBER: 8023-99-2 / 84012-35-1

EINECS NUMBER: 281-679-2

MANUFACTURING METHOD: STEAM DISTILLATION

MANUFACTURING DATE: 16/08/2020

BEST BEFORE DATE: 16/08/2022

SHELF LIFE / BEST BEFORE: 24 MONTHS

### GC ANALYSIS

ANALYTICAL DETAILS	RANGE	RESULTS
APPEARANCE	LIQUID	PASS
COLOUR	PALE YELLOW - YELLOW	PASS
ODOUR	CHARACTERISTIC	PASS
SPECIFIC GRAVITY @ 20°C	0.857 – 0.875	
REFRACTIVE INDEX @ 20°C	1.465 – 1.475	
OPTICAL ROTATION (°C)	- 20.0 TO -40.0	PASS
PEROXIDE VALUE (MEQ/KG)	MAX 5.0	

### GC ANALYSIS

COMPONENT	RESULT
a-Pinene	40.9
Camphene	1.2
B-Pinene	19.4
B-Myrcene	2.7
Delta-3-Carene	17.2
a-Terpinene	2.0
P Cymene	2.3
d-Limonene	9.9
Bornyl acetate	1.4
B-Caryophyllene	1.6

### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

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