

## CERTIFICATE OF ANALYSIS

<b>PRODUCT NAME</b>	<b>GRAPEFRUIT WHITE ESSENTIAL OIL</b>
<b>LATIN NAME</b>	<i>Citrus Paradisi</i>
<b>CAS NO</b>	<b>8016-20-4</b>
<b>PRODUCT CODE</b>	<b>PTGRAWH01</b>
<b>BATCH NUMBER</b>	<b>GFM280922OND82253</b>
<b>MANUFACTURE DATE</b>	09/2022
<b>EXPIRY DATE</b>	09/2024
<b>COUNTRY OF ORIGIN</b>	<b>SOUTH AFRICA</b>
<b>PART OF PLANT USED</b>	<b>FRUIT/PEEL (COLD PRESSED)</b>
<b>ORIGINAL DATE ISSUED</b>	<b>07/12/2022</b>
<b>DATE DISPATCHED</b>	<b>07/12/2022</b>

<b>ANALYTICAL DETAILS</b>	<b>SPECIFICATIONS</b>	<b>RESULTS</b>
<b>COLOUR</b>	CLEAR GREENISH YELLOW	COMPLIES
<b>ODOUR</b>	CHARACTERISTIC AROMA	COMPLIES
<b>PHYSICAL STATE</b>	LIQUID	COMPLIES
<b>REFRACTIVE INDEX (20°C)</b>	1.475 - 1.4780	1.4765
<b>RELATIVE DENSITY (20°C)</b>	0.848 - 0.856	0.8556
<b>OPTICAL ROTATION</b>	+91° - +96°	+94.68°

<b>MAJOR CONSTITUENT LISTING</b>	<b>SPECIFICATION</b>	<b>RESULTS</b>
<b>NAME OF CONSTITUENT</b>	<b>% COMPOSITION</b>	<b>% COMPOSITION</b>
ALPHA PINENE	0.40-0.60	0.519
SABINENE	0.20-0.60	0.494
BETA PINENE	0.03-0.50	0.097
MYRCENE	1.60-2.00	1.857
OCTANAL	-	0.361
ALPHA PHELLANDRENE	-	0.032
LIMONENE	90.00-96.00	94.099
GAMMA TERPINENE	-	0.043
OCTANOL	-	0.026
LINALOOL	-	0.078
NONANOL	-	0.061
ALPHA TERPINEOL	-	0.033
DECANAL	0.20-0.60	0.310
NERAL	-	0.044
GERANIOL	-	-
GERANIAL	-	0.069
BETA CARYOPHYLLENE	-	0.232
BETA SINENSAL	-	0.016
NOOTKATONE	0.02-0.30	0.312

<b>STORAGE CONDITIONS</b>	<b>STORE IN A COOL DARK PLACE</b>
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**A. SALMAN**  
AYANDA SALMAN  
QC DEPARTMENT

This information is believed to be current and accurate but is provided without any warranty expressed or implied. Customers are advised to determine in advance the safe conditions for use of this product.

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