

CERTIFICATE OF ANALYSIS

Grapefruit Pink Oil

3. PHYSICAL AND CHEMICAL PROPERTIES
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TEST	SPECIFICATION	RESULT
3.1 Appearance:	Yellowy-pink liquid	Conforms.
3.2 Odour:	Characteristic fresh, tart citrus aroma	Conforms.
Odour Threshold:	Not available. N/A	
3.3 Specific Gravity:	0.840 to 0.856 @ 20°C	0.848
3.4 Refractive Index:	1.4650 to 1.4780 @ 20°C	1.4760
3.5 Optical Rotation:	+91° to +96° @ 20°C	+94.5°
3.6 Solubility:	Soluble in ethyl alcohol.	Conforms.
3.7 Solubility in Water:	Insoluble. Confo	rms.
3.8 Flash Point:	54°C [Tag Closed Cup]	Conforms.

3.9 GAS CHROMATOGRAPH ANALYSIS --- and EFFA Listed Sensitisers & IFRA Notifiable Substances
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CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RA NGE	RESULT
Limonene:	YES	YES	138-86-3	205-341-0	Not available.	93.70%
Myrcene:	NO	NO	123-23-3	204-622-5	Not available.	1.86%
Sabinene:	NO	NO	3387-41-5	Not allocated	Not available.	0.54%
g-Pinene:	NO	NO	80-56-8	201-291-9	Not available.	0.52%
n-Octanal:	NO	NO	124-13-0	204-683 -8	Not available.	0.34%
Decanal:	NO	NO	112-31-2	203-957 -4	Not available.	0.26%
trans-β-Ocimene:	NO	NO	13877-91-3	237-641-2	Not available.	0.21%
trans-Linalool Oxide:	NO	NO	34995-77-2	Not allocated	Not available.	0.21%
Linalool:	YES	YES	78-70-6	201-134-4	Not available.	0.20%
p-Cymene:	NO	NO	99-87-6	202-796 -7	Not available.	0.18%
β-Phellandrene:	NO	NO	555-10-2	209-081 -9	Not available.	0.18%
Terpinen-4-ol:	NO	NO	562-74-3	209-235 -5	Not available.	0.18%
β-Caryophyllene:	NO	NO	87-44-5	201-746-1	Not available.	0.17%
g-Terpineol:	NO	NO	98-55-5	202-680 -6	Not available.	0.15%
n-Octanol:	NO	NO	111-87-5	203-917 -6	Not available.	0.14%