

Certificate of Analysis

Product	PEPPERMINT ESSENTIAL OIL (YAKIMA)
Lot #	01007204
Mfg Date	05/2023
Best Before	05/2025

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Colorless- Pale yellow	Conform
Odor	Characteristic	Conform
Refractive index 20 ^o C	1.4590 – 1.4690	1.4602
Specific Gravity 20 ^o C	0.8900 – 0.9180	0.9004
Optical Rotation	-32 to -18	26.12
Flash Point ^o F (Closed up)	160	Conform

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Certificate of Analysis

Product	PEPPERMINT ESSENTIAL OIL (YAKIMA)
Lot #	01006719
Mfg Date	10/2022
Expiration Date	10/2024

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Colorless Pale Yellow	Conform
Odor	Characteristic	Conform
Refractive Index 20 °C	1.4590 – 1.4650	1.4606
Specific Gravity 20/20° C	0.8900 – 0.9180	0.9041
Optical Rotation	-32.00 to -18.00	-26.59
Flash Point ° F (Closed Cup)	160	Conform

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Certificate of Analysis

Product	PEPPERMINT ESSENTIAL OIL (YAKIMA)
Lot #	MD103555
Manufacturing Date	May 2022
Expiration Date	May 2024

Properties	Specifications	Results
Dimethyl Sulfide	In set pass	Pass
Free Menthol	≥ 40	44.89
Identification	In set pass	Pass
Menthofuran	≥ 4.4 ≤ 4.9	4.42
Neo Isopulegol	≤ 0.15	0.11
Optical Rotation	≥ -32 ≤ -18	-25.48
Pulegone	≤ 2	1.348
Refractive Index @20C	≥ 1.4590 ≤ 1.4650	1.4615
Solubility in alcohol	In set 1 ML Dissolves in 3 ML 70% Alcohol	1ML Dissolves in 3 ML 70% alcohol
Specific Gravity @20C	≥ 0.8990 ≤ 0.9110	0.9039
Specific Gravity @25C	≥ 0.8960 ≤ 0.9080	0.9009
Total Esters as Menthyl Acetate	≥ 5.0	5.25
Total Menthol	≥ 50	50.989
Flashpoint		160 / 71

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Certificate of Analysis

Product	PEPPERMINT ESSENTIAL OIL (YAKIMA)
Lot #	MD102902
Manufacturing Date	04/2022
Expiration Date	04/2024

Properties	Specifications	Results
Dimethyl Sulfide	In set pass	Pass
Free Menthol	≥ 40	45.49
Identification	In set pass	Pass
Menthofuran	≥ 4.4 ≤ 4.9	4.4
Neo Isopulegol	≤ 0.15	0.13
Optical Rotation	≥ -32 ≤ -18	-25.24
Pulegone	≤ 2	1.36
Refractive Index @20C	≥ 1.4590 ≤ 1.4650	1.4611
Solubility in alcohol	In set 1 ML Dissolves in 3 ML 70% Alcohol	1ML Dissolves in 3 ML 70% alcohol
Specific Gravity @20C	≥ 0.8990 ≤ 0.9110	0.9045
Specific Gravity @25C	≥ 0.8960 ≤ 0.9080	0.9015
Total Esters as Menthyl Acetate	≥ 5.0	5.0
Total Menthol	≥ 50	50.0
Flashpoint		160 / 71

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Product	PEPPERMINT ESSENTIAL OIL (YAKIMA)
Lot #	MD95186
Manufacturing Date	June 2021
Expiration Date	June 2023

Properties	Specifications	Results
Dimethyl Sulfide	In set pass	Pass
Free Menthol	≥ 40	45.63
Identification	In set pass	Pass
Menthofuran	≥ 4.4 ≤ 4.9	4.46
Neo Isopulegol	≤ 0.15	0.11
Optical Rotation	≥ -32 ≤ -18	-25.36
Pulegone	≤ 2	1.22
Refractive Index @20C	≥ 1.4590 ≤ 1.4650	1.4617
Solubility in alcohol	In set 1 ML Dissolves in 3 ML 70% Alcohol	1ML Dissolves in 3 ML 70% alcohol
Specific Gravity @20C	≥ 0.8990 ≤ 0.9110	0.9030
Specific Gravity @25C	≥ 0.8960 ≤ 0.9080	0.9000
Total Esters as Menthyl Acetate	≥ 5.0	5.0
Total Menthol	≥ 50	51.54
Flashpoint		160 / 71

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Certificate of Analysis

Product	PEPPERMINT ESSENTIAL OIL (YAKIMA)
Lot #	MD96030
Shelf Life	2 years

Properties	Specifications	Results
Dimethyl Sulfide	In set pass	Pass
Free Menthol	≥ 40	45.728
Identification	In set pass	Pass
Menthofuran	$\geq 4.4 \leq 4.9$	4.40
Neo Isopulegol	≤ 0.15	0.126
Optical Rotation	$\geq -32 \leq -18$	-25.48
Pulegone	≤ 2	1.342
Refractive Index @20C	$\geq 1.4590 \leq 1.4650$	1.4613
Solubility in alcohol	In set 1 ML Dissolves in 3 ML 70% Alcohol	1ML Dissolves in 3 ML 70% alcohol
Specific Gravity @20C	$\geq 0.8990 \leq 0.9110$	0.9037
Specific Gravity @25C	$\geq 0.8960 \leq 0.9080$	0.90077
Total Esters as Menthyl Acetate	≥ 5.0	5.0
Total Menthol	≥ 50	51.325
Flashpoint		160 / 71

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Certificate of Analysis

Product	PEPPERMINT ESSENTIAL OIL (YAKIMA)
Lot #	14243726
Shelf Life	1 year

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Colorless Pale Yellow	Conform
Odor	Characteristic	Conform
Refractive Index 20 °C	1.4590 – 1.4650	1.4606
Specific Gravity 20/20° C	0.8900 – 0.9180	0.9041
Flash Point ° F (Closed Cup)	160	Conform

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Certificate of Analysis

Product	PEPPERMINT ESSENTIAL OIL (YAKIMA)
Lot #	13693717
Shelf Life	1.5 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Colorless- Pale yellow	Conform
Odor	Characteristic	Conform
Refractive index 20 ^o C	1.4590 – 1.4690	1.4601
Specific Gravity 20 ^o C	0.8900 – 0.9180	0.9042
Flash Point ^o F (Closed up)	160	Conform

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Certificate of Analysis

Product	PEPPERMINT ESSENTIAL OIL (YAKIMA)
Lot #	12311717
Shelf Life	1.5 years

Properties	Specifications	Results
Appearance	Liquid	Conforms
Odor	Characteristic	Conforms to Standard
Color	Colorless Pale yellow	Conforms
Refractive Index 20 ^o C	1.4590 – 1.4650	1.4606
Specific Gravity 20/20 ^o C	0.8900 – 0.9180	0.9033
Flash Point ^o F (Closed Cup)	160 Minimum	Conforms

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