

Optical Rotation

Product Lot # Manufacturing Date Expiration Date	EUCALYPTUS ESSENTIAL OIL 2101101 03/2021 03/2024	
Properties	Specifications	Results
Appearance Color Odor Specific Gravity @ 20ºC	Liquid Colorless Characteristic	Conform Conform Conform 0.9094
Refractive Index @ 20°C		1.4601

This Certificate of Analysis was created by the manufacturer/distiller of the product. This information is believed to be up-to-date and correct; however, it is provided without any warranty. The customer is responsible for examining the product upon arrival and determining the safe use of the product in order to be in compliance with all applicable laws and regulations. The product must be stored in a cool, dry place away from direct light and heat, tightly sealed and away from children, the mentally infirm and pets. Essential oils shipped in amber plastic pharmaceutical grade bottles must be transferred to amber glass upon arrival, those shipped in aluminum bottles may be stored in such bottles for a minimum of 6 months, tightly sealed. All responsibility (including damage or injury) for the use of this and any other product purchased from Camden-Grey Essential Oils, Inc. rests with the purchaser/user. Camden-Grey's liability is limited to the paid value of this product.

3.278



Product	EUCALYPTUS ESSENTIAL OIL
Lot #	2020041
Shelf Life	3 years

Properties	Specifications	Results	
Appearance	Liquid	Conform	
Color	Colorless	Conform	
Odor	Characteristic	Conform	
Specific Gravity @ 20ºC		0.911	
Refractive Index @ 20°C		1.4606	
Optical Rotation @ 20°C		+ 1.799 ⁰	
1.8-cineol %		80.6	



Product	EUCALYPTUS ESSENTIAL OIL
Lot #	2022037
Shelf Life	3 years

Properties	Specifications	Results	
Appearance	Liquid	Conform	
Color	Colorless	Conform	
Odor	Characteristic	Conform	
Specific Gravity @ 20ºC		0.912	
Refractive Index @ 20°C		1.463	
Optical Rotation @ 20°C		+ 2.25°	
1.8-cineol %		80.3	



Product Lot # Shelf Life	EUCALYPTUS ESSENTIAL OIL 2027031 3 years	
Properties	Specifications	Results
Appearance Color Odor Specific Gravity 20° C Refractive Index 20° C Optical Rotation Alcohol Solubility 70 1.8 Cineol Alpha Pinene Globulol Limonene Paracymene Trans Pinocarveol	Limpid Liquid Colorless Characteristic 0.906 - 0.925 $1.458 - 1.465 \le 10 \le 5$ 80 - 100 $0.001 - 12 \le 0.001$ 2 - 15 1 - 10 0.001 - 6	Conform Conform 0.911 1.459 3.2 3 80.3 1.9 0 9.8 4 <0.1
Analysis GC		Conform



Product Lot # Shelf Life	EUCALYPTUS ESSENTIAL OIL 1909071 3 years	
		Results

Appearance	Limpid Liquid	Conform	
Color	Colorless	Conform	
Odor	Characteristic	Conform	
Specific Gravity 20 ⁰ C	≤ 10	3.5	
Refractive Index 20 ⁰ C	≤ 5	4	
Optical Rotation	0.906 – 0.927	0.909	
Alcohol Solubility 70	1.458 – 1.470	1.461	
1.8 Cineol	1 – 10	1.4	
Alpha Pinene	0.001 – 6	0.001	
Globulol	≤ 0.001	0.001	
Limonene	0.001 - 12	0.3	
Paracymene	80 – 100	80.9	
Trans Pinocarveol	2 – 15	7.7	
Analysis GC		Conform	