

## CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION		COMPANY IDENTIFICATION	
PRODUCT NAME:	Cedar of Virginia	COMPANY:	ZAYAT AROMA INC.
BOTANICAL NAME:	Juniperus virginiana	ADDRESS:	1339 SHEFFORD, BROMONT (QC) J2L 1C9, CANADA
SYNONYM(S):	Eastern red cedar	TELEPHONE:	1.855.534.1671
		FAX:	1.855.318.6124
		WEB:	WWW.ZAYATAROMA.COM
		E-MAIL:	INFO@ZAYATAROMA.COM
INCI NAME:	Juniperus virginiana (cedarwood) oil		
CAS TSCA:	8000-27-9	HS CODE:	3301.29
CAS EINECS:	N/A	EINECS:	285-370-3
FEMA:	N/A	COE:	N/A
COUNTRY OF ORIGIN:	United States	FDA CODE:	N/A
PRODUCTION TYPE:	Wild		
PRODUCTION METHOD:	Distillation complète à la vapeur d'eau		
PART DISTILLED:	Wood		
LOT NUMBER:	EAS586848US35618E		
PRODUCTION DATE:	April 2018		
EXPIRATION DATE:	April 2020		

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>Light yellow to greenish yellow liquid</i>	<i>Complies</i>
ODOR	<i>Characteristic sweet, woody odor</i>	<i>Complies</i>
SOLUBILITY	<i>Soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY:	<i>0.939 - 0.965</i>	<i>0.950</i>
OPTICAL ROTATION:	<i>-38 - -24 @ 20°C</i>	<i>-32.16</i>
REFRACTIVE INDEX:	<i>1.494 - 1.514 @ 20-C</i>	<i>1.5048</i>
PEROXYDE VALUE:	<i>&lt;= 15 mEq 02/KG</i>	<i>Complies</i>

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Cedar of Virginia  
Juniperus virginiana

LOT: US35618E

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COMPONENTS	% TOTAL: 99.86
a -PINENE	0.09
LIMONENE	0.01
TERPINOLENE	0.01
SESQUITERPENE	0.05
a,p-DIMETHYLSTYRENE	0.01
SESQUITERPENE	0.02
THUYOPSENE ISOMER	0.05
SESQUITERPENE	0.02
CEDRENE ISOMER	0.61
a-ISOCOMENE	0.01
CEDRENE ISOMER	0.77
B -BERGAMOTENE ISOMER	0.16
CEDRENE ISOMER	0.27
BERGAMOTENE ISOMER	0.06
a -CEDRENE	27.70
B-FUNEBRENE	1.52
SELINADIENE ISOMER	0.26
SESQUITERPENE Mw=202	0.18
GURJUNENE ISOMER	0.71
B-CARYOPHYLLENE	0.94
B-CEDRENE + MUUROLENE ISOMER	5.28
ELEMENE ISOMER	0.27
THUYOPSENE	20.00
HIMACHALENE ISOMER	0.06
PREZIZA - 7 -ENE	0.15
SESQUITERPENE Mw=202	0.18
a-HIMACHALENE	0.20
SESQUITERPENE	0.09
CURCUMENE ISOMER	0.10
E - B -FARNESENE	0.12
SEQUITERPENE + a -HUMULENE	0.09
ACORADIENE ISOMER	0.30
CURCUMENE ISOMER	0.29
y -CURCUMENE	0.48
CEDRENE ISOMER	0.07
CURCUMENE ISOMER	0.23
SESQUITERPENE Mw=202	0.15
a-TERPINEOL	0.29
B-CHAMIGRENE	1.10
HIMACHALENE ISOMER	0.30
SESQUITERPEN E	0.05
B-SELINENE	0.37
B -BISABOLENE + a -MUUROLENE	0.54
CHAMIGRENE ISOMER + a -SELINENE	1.57
SESQUITERPENE	0.15
B-HIMACHALENE	1.17
a-CHAMIGRENE	0.70
Cis -THUYOPSENE	0.06
FARNESENE ISOMER	0.19
o -CADINENE	0.34
y -CADINENE	0.07
SESQUITERPENE	0.09
ELEMENE ISOMER	0.50
a-CURCUMENE	0.17
SELINADIENE ISOMER	0.05
ISOTHUYOPSENE	1.07
a-AMORPHENE	0.02
SESQUITERPENE	0.03

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SESQUITERPENE	0.01
SESQUITERPENE	0.12
ALKYL COMPONENT	0.08
CUPARENE	1.10
CALAMENENE	0.04
AROMATIC COMPONENT	0.08
AROMATIC COMPONENT	0.09
COMPONENT Mw=220	0.05
COMPONENT Mw=220	0.02
PHENOLIC COMPONENT	0.03
a-CALACORENE	0.05
SESQUITERPENOL Mw=222	0.02
SESQUITERPENE Mw=222	0.02
CARYOPHYLLENE EPOXIDE	0.09
NEROLIDOL	0.05
CARYOPHYLLENOL	0.06
WIDDROL ISOMER + LEVOJUENOL	0.11
CUBEBOL + SESQUITERPENOL Mw=222	0.22
ELEMOL	0.02
SESQUITERPENOL Mw=220	0.07
CEDROL ISOMER	0.18
SESQUITERPENOL Mw=222	0.18
SESQUITERPENOL Mw=222	0.63
CEDROL	18.87
CEDRENOL ISOMER	0.19
SESQUITERPENOL Mw=220	0.21
WIDDROL	2.36
CEDROL ISOMER	0.47
SESQUITERPENOL Mw=220	0.18
CEDRYL ACETATE	0.37
a-MUUROLOL	0.10
SESQUITERPENONE Mw=218	0.03
o-CADINENE	0.03
CARVACROL	0.02
a-BISABOLOL	0.33
HIMACHALOL ISOMER	0.12
SESQUITERPENONE Mw=218	0.07
a-EUDES MOL	0.04
a-CADINOL	0.05
B-EUDES MOL	0.13
MAALIOL	0.03
PHENOLIC COMPONENT	0.04
EUDESMA-7-EN-4-OL	0.10
SESQUITERPENOL AROMATIC Mw=222	0.04
CHAMIGRENOL Mw=222	0.04
SESQUITERPENOL Mw=220	0.02
CURCUMENIC SESQUITERPENE	0.26
SESQUITERPENOL Mw=222	0.05
SOLAVETIVONE Mw=218	0.15
SESQUITERPENIC EPOXIDE	0.13
SESQUITERPENOL Mw=220	0.05
SESQUITERPENOL Mw=222	0.02
SESQUITERPENIC EPOXIDE	0.08
COMPONENT Mw=220	0.29
SESQUITERPENOL Mw=222	0.08
COMPONENT Mw=220	0.11
SESQUITERPENOL Mw=220	0.09
COMPONENT Mw=220	0.08
a-CEDRENOL	0.11
COMPONENT Mw=220	0.04
SESQUITERPENOL Mw=220	0.27
NOOTKATONE	0.15
SESQUITERPENOL Mw=220	0.15
SESQUITERPENOL Mw=220	0.13
AROMATIC COMPONENT Mw=218	0.07
AROMATIC COMPONENT	0.03

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