



CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION

PRODUCT NAME: Carrot
BOTANICAL NAME: Daucus carota
SYNONYM(S):

INCI NAME: Daucus carota fruit oil
CAS TSCA: 8015-88-1
CAS EINECS: 84929-61-3
FEMA: 2244
COUNTRY OF ORIGIN: India
PRODUCTION TYPE: Conventional
PRODUCTION METHOD: Steam distilled
PART DISTILLED: Seeds
LOT NUMBER: EAC328227IN35619H
PRODUCTION DATE: 06/2019
EXPIRATION DATE: 09/2021

COMPANY IDENTIFICATION

COMPANY: ZAYAT AROMA INC.
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HS CODE: 3301.29
EINECS:
COE: 173n
FDA CODE: 182.2

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>Free flowing liquid; light yellow</i>	<i>Complies</i>
ODOR	<i>Pleasant aromatic odor</i>	<i>Complies</i>
SOLUBILITY	<i>Partially soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY:	<i>0.931 - 0.992 @ 20°C</i>	<i>0.952</i>
OPTICAL ROTATION:	<i>+10° - +30°</i>	<i>+22.0</i>
REFRACTIVE INDEX:	<i>1.490 - 1.510 @ 20°C</i>	<i>1.502</i>
PEROXYDE VALUE:	<i><= 15 mEq O2/KG</i>	<i>N/A</i>

DISCLAIMER

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% TOTAL: 99.88	COMPONENTS
0.57	alpha -PINENE
0.02	alpha -THUYENE
0.04	CAMPHERE
0.32	beta-PINENE
0.05	SABINENE
0.04	PINADIENE
0.01	delta3-CARENE
0.40	beta-MYRCENE
0.01	alpha-TERPINENE
0.01	HEPTANAL
0.31	LIMONENE
0.01	1,8 -CINEOLE
0.01	MENTHATRIENE ISOMER
0.02	gamma -TERPINENE
0.01	Trans -beta -OCIMENE
0.04	p -CYMENE
0.01	TERPINOLENE
0.02	5 -HEPTEN - 2 -ONE, 6 -METHYL -
0.02	alpha,p -DIMETHYL STYRENE
0.01	SESQUITERPENE
0.01	AROMATIC COMPOUND Mw=174
3.14	DAUCENE
0.07	SESQUITERPENE Mw=202
0.03	alpha -COPAENE
0.43	beta1 -CUBEBENE
0.02	LINALOOL
0.15	COMPOUND Mw=220
0.02	LINALYL ACETATE
0.04	COMPOUND Mw=220
0.05	LONGIFOLENE
0.03	alpha,cis -BERGAMOTENE
0.03	epsilon -CADINENE
0.01	BORNYL ACETATE
0.68	alpha,trans -BERGAMOTENE
0.11	beta -ELEMENE + COMPOUND Mw=222
0.50	beta -CARYOPHYLLENE
0.07	TERPINENE - 4 -OL
0.05	SESQUITERPENE
0.03	MYRTENAL
0.02	SESQUITERPENE
0.11	AROMATIC COMPOUND
0.02	épi -beta -SANTALENE
0.11	AROMATIC COMPOUND
0.01	SESQUITERPENE
0.03	Trans -PINOCARVEOL
0.02	beta -SANTALENE
0.25	ZONARENE
0.17	SESQUITERPENE
0.05	alpha -HUMULENE
1.64	E -beta -FARNESENE
0.03	Trans -VERBENOL
0.15	SESQUITERPENE Mw=202
0.03	Z -beta -FARNESENE
0.02	gamma -MUUROLENE
0.76	CALARENE
0.07	alpha -TERPINEOL
0.03	VERBENONE
0.02	SESQUITERPENE Mw=202

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0.02	PELLANDRA
0.05	beta-SELINENE
0.11	alpha-ZINGIBERENE
0.80	alpha-MUUROLENE + alpha-SELINENE
2.05	beta-BISABOLENE
0.07	COMPOUND Mw=172
0.05	ALIPHATIC ESTER
0.03	AROMATIC COMPOUND
0.03	alpha-FARNESENE
0.15	CHAMIGRENE ISOMER
0.03	delta-CADINENE
0.28	alpha-CURCUMENE
0.06	alpha-BISABOLENE
0.03	COMPOUND Mw=200
0.05	MYRTENOL
0.30	AROMATIC COMPOUND Mw=220
0.02	SESQUITERPENONE Mw=218
0.04	beta-DAMASCENONE
0.16	BENZENE, DIMETHYL-4-HEXENYL-4-METHYL
0.01	Cis-ANETHOL
0.02	Trans-CARVEOL
0.10	CALAMENENE
0.06	COMPOUND Mw=220
0.04	AROMATIC COMPOUND
0.03	AROMATIC COMPOUND
0.02	alpha-CALACORENE
0.04	DENDROLASIN Mw=218
0.02	SESQUITERPENIC EPOXIDE
0.05	AROMATIC COMPOUND
0.55	CARYOPHYLLENE OXIDE
0.09	SESQUITERPENOL
1.63	15-COPAENOL
72.44	CAROTOL
3.93	CEDRENE OXIDE
0.16	AROMATIC COMPOUND
0.06	SESQUITERPENOL
0.11	SESQUITERPENONE Mw=218
0.09	ALIPHATIC ALCOHOL
0.31	SESQUITERPENOL
0.04	TRIMETHYL PENTADECANONE
0.13	COPAENOL ISOMER
0.23	METHYLISOEUGENOL
0.11	VINYL QUAJACOL
0.01	Epi-alpha-BISABOLOL
0.04	alpha-BISABOLOL
0.23	beta-EUDESMO
0.20	PHENOLIC COMPOUND
2.77	DAUCOL
0.07	CARYOPHYLLA-3,7-DIEN-6-OL
0.04	SESQUITERPENOL
0.04	AROMATIC COMPOUND
0.06	SESQUITERPENOL
0.05	DILLAPIOL
0.04	beta-ASARONE
0.08	SESQUITERPENONE Mw=218
0.10	SESQUITERPENIC COMPOUND Mw=236
0.05	AROMATIC COMPOUND
0.02	AROMATIC COMPOUND
0.03	PHYTOL
0.03	MYRISTIC ACID
0.04	AROMATIC COMPOUND
0.44	PALMITIC ACID