

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION COMPANY IDENTIFICATION

COMPANY:

ADDRESS:

Wintergreen Organic - ESSENTIAL OIL PRODUCT NAME:

BOTANICAL NAME: Gaultheria fragrantissima

SYNONYM(S): wintergreen

1.855.534.1671 TELEPHONE: FAX: 1.855.318.6124

WEB: WWW.ZAYATAROMA.COM INFO@ZAYATAROMA.COM E-MAIL:

INCI NAME: Gaultheria fragrantissima Wall

3301.29 CAS TSCA: 68917-75-9 HS CODE: 289-888-0 119-36-8 EINECS: CAS EINECS: 211n FEMA: 3113 COE: COUNTRY OF ORIGIN: Nepal FDA CODE : N/A

PRODUCTION TYPE: Organic PRODUCTION METHOD: Steam distilled

PART DISTILLED: Leaves EAB428777 NP38316A LOT NUMBER:

July, 2016 PRODUCTION DATE: EXPIRATION DATE: July, 2018 Certified organic by Ecocert Canada

ZAYAT AROMA INC.

1339 SHEFFORD, BROMONT (QC) J2L 1C9, CANADA

Complies

Complies

Complies

1.536



PROPERTIES SPECIFICATIONS RESULTS

Pink to red liquid Complies **APPEARANCE**

Characteristic intense sweet woody odor with flowery odour ODOR

Soluble in diethyl ether. Very slightly soluble in cold water. Solubility in water: 0.74%.

SOLUBILITY

1.183 1.18 - 1.184 @ 25°C

SPECIFIC GRAVITY OPTICAL ROTATION

-1.5 - +0 @ 20°C

REFRACTIVE INDEX

1.535 - 1.538 @ 20°C

COMPOSITION

Methyl salicylate, safrole, linalool, cineole, pinene, gaultherilene

DISCLAIMER

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CERTIFICATE OF ANALYSIS

ZA.COA.WINTERGREEN.EAB428777NP38316A

Wintergreen Organic - ESSENTIAL OIL Gaultheria fragrantissima

LOT: EAB428777NP38316A

CERTIFICATE OF ANALYSIS

decane 0,2 undecane 0,56 undecane. 3-methyl- 0,23 hexadecane 0,28 benzoic acid, 2-hydroxy-, methyl ester 0,25 4-hexen-1-ol, 5-methyl-2-(1-methylethenyl)- 0,65 Dodecane 0,91 benzoic acid, 2-hydroxy-, methyl ester 84,75 4-hexen-1-ol, 5-methyl-2-(1-methylethenyl)- 0,8 3-dodecane,€ 1,03 4-hexen-1-ol, 5-methyl-2-(1-methylethenyl)- 0,4 decane, 3.8-dimethyl- 0,48 2.6-octadienal, 3.7-dimethyl-,E- 0,94 benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 Ill-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene, 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,5,6,8a-octahydro-7-m 0,86	COMPONENTS	% TOTAL: 98,83
undecane. 3-methyl- 0,28 hexadecane 0,25 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- 0,65 Dodecane 0,91 benzoic acid, 2-hydroxy-, methyl ester 84,75 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- 0,8 3-dodecane, € 1,03 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- 0,4 decane, 3.8-dimethyl- 0,48 2.6-octadienal, 3.7-dimethyl-,E- 0,94 benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 Ill-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene, 1, 2, 3, 4, 5, 6, 78-octahydro-1, 4-dimethyl 1,05 1,6, 10-dodecatriene, 7, 11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1, 2, 3, 4, 5, 6, 8a-hexahydro-4, 7-dimethyl 0,35 nepthalene, 1, 2, 3, 4, 5, 6, 8a-octahydro-7-m 0,86	decane	0,2
hexadecane 0,28 benzoic acid, 2-hydroxy-, methyl ester 0,25 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- 0,65 Dodecane 0,91 benzoic acid, 2-hydroxy-, methyl ester 84,75 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- 0,8 3-dodecane, € 1,03 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- 0,4 decane, 3.8-dimethyl- 0,48 2.6-octadienal, 3.7-dimethyl-,E- 0,94 benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 Ill-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene, 1, 2, 3, 4, 5, 6, 7,8-octahydro-1, 4-dimethyl 1,05 1,6, 10-dodecatriene, 7, 11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1, 2, 3, 4, 5, 6, 8a-hexahydro-4, 7-dimethyl 0,35 nepthalene, 1, 2, 3, 4, 5, 6, 8a-octahydro-7-m 0,86	undecane	0,56
benzoic acid, 2-hydroxy-, methyl ester 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- Dodecane 0,91 benzoic acid, 2-hydroxy-, methyl ester 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- 3-dodecane,€ 1,03 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- decane, 3.8-dimethyl- 2.6-octadienal, 3.7-dimethyl-,E- benzoic acid, 2-hydroxy-, ethyl ester tridecane 7-octan-2-ol, 2.6-dimethyl-, tetradecane 1ll-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o cyclohexamethanol, 4-ethenyl-alpha, alpha azulene, 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,35 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,26 nepthalene, 1,2,3,4,5,6,8a-octahydro-7-m 0,86	undecane. 3-methyl-	0,23
4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)- 0,65 Dodecane 0,91 benzoic acid, 2-hydroxy-, methyl ester 84,75 4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)- 0,8 3-dodecane,€ 1,03 4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)- 0,4 decane, 3.8-dimethyl- 0,48 2.6-octadienal, 3.7-dimethyl-,E- 0,94 benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,5,6,8a-octahydro-7-m 0,86	hexadecane	0,28
Dodecane 0,91 benzoic acid, 2-hydroxy-, methyl ester 84,75 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- 0,8 3-dodecane,€ 1,03 4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)- 0,4 decane, 3.8-dimethyl- 0,48 2.6-octadienal, 3.7-dimethyl-,E- 0,94 benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	benzoic acid, 2-hydroxy-, methyl ester	0,25
benzoic acid, 2-hydroxy-, methyl ester 4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)- 3-dodecane,€ 1,03 4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)- decane, 3.8-dimethyl- 2.6-octadienal, 3.7-dimethyl-,E- benzoic acid, 2-hydroxy-, ethyl ester tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, tetradecane 1,1 7-octan-2-ol, 2.6-dimethyl-, cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o cyclohexamethanol, 4-ethenyl-alpha, alpha azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle alpha-cubebene nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl nepthalene, 1,2,3,4,5,6,8a-octahydro-7-m 0,86	4-hexen-l-ol, 5-methyl-2-(1-methylethenyl)-	0,65
4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)- 3-dodecane,€ 1,03 4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)- 0,4 decane, 3.8-dimethyl- 2.6-octadienal, 3.7-dimethyl-,E- benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	Dodecane	0,91
3-dodecane, € 1,03 4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)- 0,4 decane, 3.8-dimethyl- 0,48 2.6-octadienal, 3.7-dimethyl-,E- 0,94 benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	benzoic acid, 2-hydroxy-, methyl ester	84,75
4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)- 0,4 decane, 3.8-dimethyl- 0,48 2.6-octadienal, 3.7-dimethyl-,E- 0,94 benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)-	0,8
decane, 3.8-dimethyl- 0,48 2.6-octadienal, 3.7-dimethyl-,E- 0,94 benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,5a,6,8a-octahydro-7-m 0,86	3-dodecane,€	1,03
2.6-octadienal, 3.7-dimethyl-,E- 0,94 benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	4-hexen-I-ol, 5-methyl-2-(1-methylethenyl)-	0,4
benzoic acid, 2-hydroxy-, ethyl ester 0,7 tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	decane, 3.8-dimethyl-	0,48
tridecane 1,1 7-octan-2-ol, 2.6-dimethyl-, 0,2 tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	2.6-octadienal, 3.7-dimethyl-,E-	0,94
7-octan-2-ol, 2.6-dimethyl-, tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	benzoic acid, 2-hydroxy-, ethyl ester	0,7
tetradecane 0,53 III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	tridecane	1,1
III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o 0,22 cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	7-octan-2-ol, 2.6-dimethyl-,	0,2
cyclohexamethanol, 4-ethenyl-alpha, alpha 0,38 azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	tetradecane	0,53
azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl 1,05 1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	III-cycloprop[e]azulene, 1a, 2, 3, 4, 4a, 5, 6, 7b-o	0,22
1,6,10-dodecatriene, 7.11-dimethyl-3-methyle 0,33 alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	cyclohexamethanol, 4-ethenyl-alpha, alpha	0,38
alpha-cubebene 0,37 nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	azulene. 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl	1,05
nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl 0,35 nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	1,6,10-dodecatriene, 7.11-dimethyl-3-methyle	0,33
nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m 0,86	alpha-cubebene	0,37
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nonthalana 1 2 2 4 5 6 82 havahydra 4 7 dimethyl	nepthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-m	0,86
ricpulatione, 1,2,3,4,3,0,0a-nexariyuru-4,7-uiritetriyi 1,20	nepthalene, 1,2,3,4,5,6,8a-hexahydro-4,7-dimethyl	1,26