# White Cognac Essential Oil

# Laboratoire PhytoChemia



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Date: October 19, 2017

SAMPLE IDENTIFICATION

Internal code: 17/13-FS61-1-CC Customer Identification: White Cognac - France - 330195

Type: Essential oil Source: Vitis vinifera

Customer: Flowers Shining Everywhere Inc.

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ANALYSIS

Method: PC-PA-001-15E06, "Analysis of the composition of a liquid essential oil by GC-FID" (in French).

Identifications double-checked by GC-MS

Analyst: Sylvain Mercier, M. Sc., chimiste

Analysis date: 2017-10-19

Checked and approved by:

Alexis St-Gelais, M. Sc., chimite 2013-174

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#### IDENTIFIED COMPOUNDS

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Identification	Column: BP5			Column: WAX			20.5
	R.T.	R.L.	96	96	RL	R.T.	Molecular Class
Ethanol	0.35	632	0.27	0.25	786	0.69	Aliphatic alcohol
Ethyl acetate	0.53	656	0.11				Aliphatic ester
Acetic acid	0.55	658	0.04				Aliphatic acid
Isoamyl alcohol	1.16	738	0.02	0.02	1151	3.01	Aliphatic alcohol
Isoamyl acetate	2.70	880	0.01	0.02	1061	2.05	Aliphatic ester
Ethyl hexanoate liv	1474	1004	0.17	0.15	1186	3.47	Aliphatic ester
Hexanoic acid	5.02	1019	0.03	23.60	1805	24.67*	Fatty acid
Ethyl octanoate	9.42	1202	6.01	5.87	1392	6.57*	Aliphatic ester
Octanoic acid	10.13	1218	1.16	1.26	2006	36,80	Fatty acid > 0 ton
Isopentyl hexanoate	11.53	1249	0.01	[5.87]	1392	6.57*	Aliphatic esten
Propyl octanoate	13.71	1296	0.02				Fatty acid
Methyl decanoate	15.63	1326	0.04				Aliphatic ester
nglsobutyl octanoate	17.05	1347	0.02				Aliphatic ester
+ Ethyl 9-decenoate	20.15	1394	0.11				Aliphatic ester
Ethyl decanoate	21.04	1405	40.50	39.43	1604	12.83	Aliphatic ester
Decanoic acid	23.73	1438	11.16	11.40	2207	42.71	Fatty acid
Isopentyl octanoate	24.61	tièvan	0.038	10.42	1615	13,40	Allphatic ester
2-Methylbutyl octanoate	24.78	1450	0.07	-			Aliphatic ester
Propyl decanoate	28.57	1495	0.10				Aliphatic ester
Isobutyl decanoate	33.09	1558	0.13				Allphatic ester
Ethyl dodecanoate	36.21	1605	24.32	[23.60]	1805	24.67*	Aliphatic ester
Dodecanoic acid	36.92	1623	5.01	6.04	2422	4750	Fatty acid
Isopentyl decanoate	38.14	1652	1.62	1.83	1818	25.61	Aliphatic ester
2-Methylbutyl decanoate	38,20	1654	0.23				Aliphatic ester
Propyl dodecanoate	39.86	1695	0.05				Aliphatic ester
Myristic acid	43.10	1796	0.42	0.46	2637	51.68	Fatty acid
Ethyl tetradecanoate	43.20	1799	1.22	1.27	1993	36.18	Aliphatic ester
Isoamyl laurate	44.54	1848	0.50				Aliphatic ester
2-Methylbutyl laurate	44.60	1850	0.06				Aliphatic ester
Ethyl 9-hexadecenoate	47.83	1975	9039	iou.			Aliphatic ester
Hexadecenoic acid isomer	48.37	1997	+ 2.16	2.48	2852	55.53	Fatty acid 119 Tools
Ethyl hexadecenoate isomer	48.46	2001	3.15	3.34	2218	42.98	Allphatic esters ***
Total identified			99.49%	97.84%			

Total identified 99.49% [97.84% ]

\*Two or more compounds are coeluting on this column [on: Oundrate percentage due to coelutions, not taken account in the identified total \*\*\*\*\*

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Report prepared for Flowers Shining Everywhere Inc. Essential of, With whilero Internal Code: 17J13-FSE1-1-CC OTHER DATA livinglibation Physical aspect: Faintly yellow liquid Refractive Index: 1.4310 ± 0.0003 (20 °C) CONCLUSION No adulterant, contaminant or diluent were detected using this method. tivinglibations +==== livinglibation 3225-A, Boul. St-François, Jonquière (Qc). G7T 1A1 | www.phytochemia.com ..... livinglibotion + \*\*\*\* livinglibation Iminglibation ---livinglibation +++\*\* livinglibation livinglibations \*\*\*\*\* \*\*\*\*\* livinglibation \*\*\*\*\* livinglibations + \*\*\*\* livinglibotion PhrtoChemia ----Page 3 of 5 Plus que des analyses... des conseils



