



24 CHATHAM PLACE, BRIGHTON, BN1 3TN (UK)
 TEL. (UK) 0845 310 8066 International Tel. +44 1273 746505
 EMAIL: info@nhrorganiccoils.com Web Site: www.nhrorganiccoils.com

Certificate of Analysis & Gas Chromatography
Organic Maritime Pine Essential Oil
(Pinus pinaster)

Produit: H.E. PIN MARITIE BIO (*Pinus pinaster*)

Origine: PORTUGAL

N° du batch: 130120-4

Caracteristiques d'analyse :

G C - 7820 A GC System Agilent Technologies

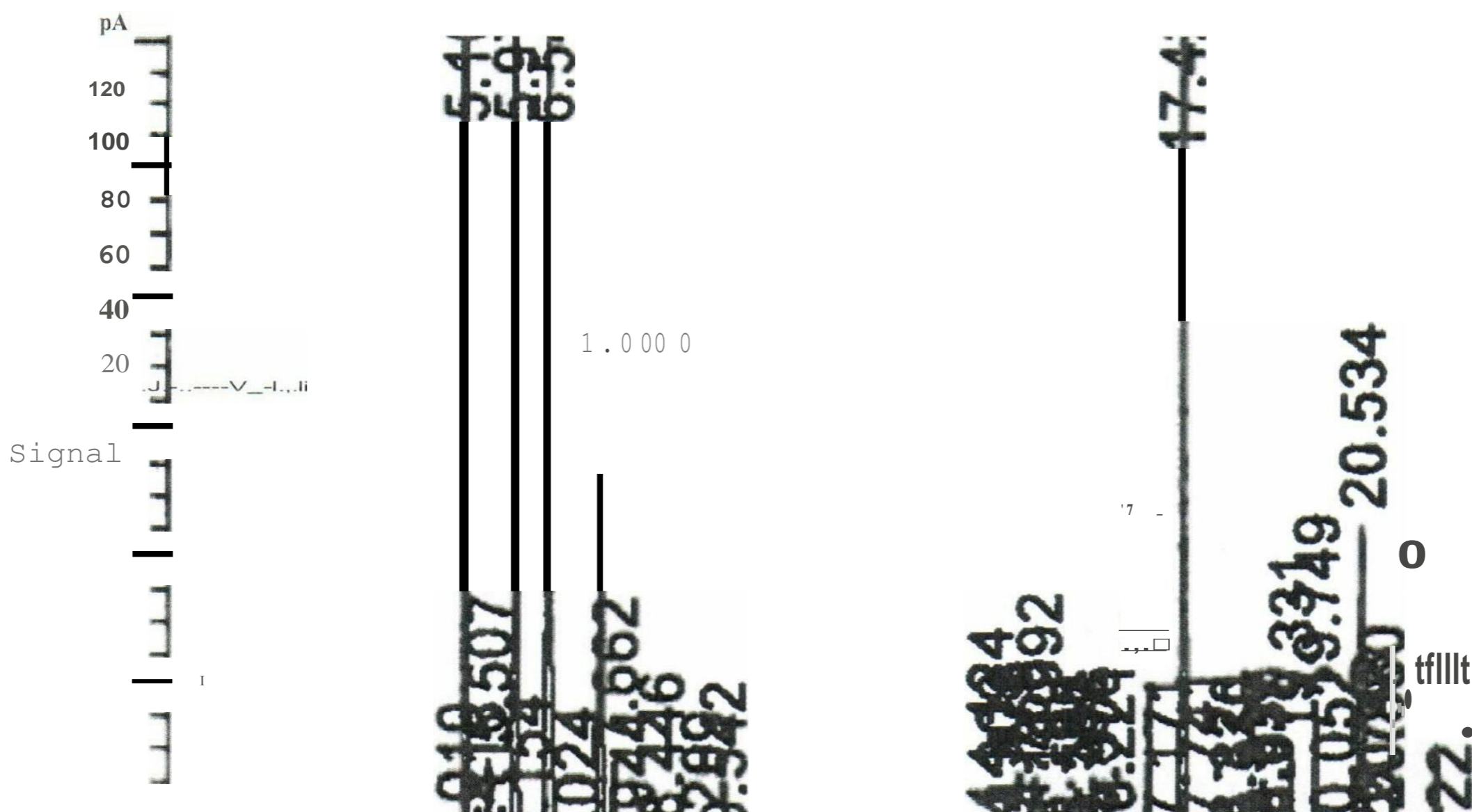
Calonne: HP-101 METHYL SILICONE FIU ID

Programmation de temperature: 7mn à 130°C--40°C/mn 220°C-7mn à 220°C Gaz vecteur N2 : 28 psis

Caracteristiques physiques :

ESSAI	RESULTAT	METHODE
Apparence	Liquide Jaune	Conforme std
Color	pale	Conforme std
Odeur	Characteristique	Conforme std
Densite relative (20°C):	0.874	NSOC 57
Indiioe de refraction (20°C)	1.480	NSOC68
a-Pinene Camphene	36.753 o/o	CG
f3-Pinene	0.545 o/o	CG
f3-Myrcene	19.209 o/o	CG
	8.437 o/o	CG

FID1 A, Front Signa (ABR022018\ELCALIPT0 001589.D)



Dilution: 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area
1	2.917	BB	0.2222	46.45183	2.48313	0.59285
2	5.010	VV	0.0262	4.07841	2.39723	0.05205
3	5.103	VV	0.0259	2879.74097	1654.16699	36.75339
4	5.416	VV	0.0399	7.18720	2.50136	0.09173
5	5.567	VV	0.0333	42.73365	19.13798	0.54540
6	5.970	VV	0.0354	1505.08118	661.19604	19.20896
7	6.154	VV	0.0779	22.25406	3.67315	0.28402
8	6.540	VV	0.0638	661.04425	142.29285	8.43674
9	7.024	VV	0.0907	12.98645	1.92565	0.16574
10	7.424	VV	0.0590	274.26282	66.89649	3.50035
11	7.524	VV	0.0952	120.16742	18.64741	1.53367
12	7.944	VV	0.1248	11.86432	1.13129	0.15142
13	8.446	VB	0.0972	51.87355	7.24196	0.66205
14	9.209	VV	0.0899	7.40295	1.14396	0.09448
15	10.544	VV	0.0889	37.20314	5.89225	0.47481
16	14.124	VV	0.0574	32.93851	8.61491	0.42039
17	14.309	VV	0.0607	8.59964	2.09340	0.10975
18	14.473	VB	0.0598	14.14285	3.51396	0.18050
19	14.753	BV	0.0595	15.66984	3.91111	0.19999
20	14.992	VV	0.0595	56.12631	14.01630	0.71633
21	15.189	VV	0.0686	5.53149	1.17381	0.07060
22	15.590	VV	0.0521	4.88812	1.42194	0.06239
23	15.782	VV	0.0854	7.73516	1.19017	0.09872
24	15.976	VV	0.0801	13.96018	2.57406	0.17817
25	16.221	VV	0.0681	15.69217	3.31095	0.20028
26	16.841	VV	0.0669	137.45221	30.56827	1.75427
27	17.171	VV	0.0807	7.57032	1.41839	0.09662
28	17.428	VV	0.0621	794.92639	194.46432	10.14544
29	17.741	VB	0.1109	16.51071	2.01352	0.21072
30	18.320	BV	0.0764	7.25352	1.40132	0.09257
31	18.510	VV	0.0797	6.15644	1.08590	0.07857
32	18.837	VV	0.0631	9.23298	2.24648	0.11784
33	18.970	VV	0.0786	12.80851	2.38559	0.16347
34	19.331	VV	0.0801	108.19321	19.95163	1.38084
35	19.749	VV	0.0795	137.05676	25.81840	1.74922
36	20.052	VV	0.1731	38.29945	2.85949	0.48881
37	20.534	VV	0.0960	361.65652	54.94996	4.61573
38	20.748	VV	0.0612	19.17537	4.61951	0.24473
39	20.880	VB	0.1462	93.14326	8.66740	1.18876
40	21.830	BV	0.1042	147.88211	21.08108	1.88738
41	22.041	VB	0.1341	78.37330	8.18391	1.00026