



NAFOL 22+ Identification by gas chromatography

Input into PMN / NSN process

Substance (registration name)	Olefines, polymer, oxidized, hydrolyzed, distn. residues, from C20 alcohols manuf.
Test Material	NAFOL 22+
Batch / Lot no.	03820/MA
Company Study no.	
Date of Analysis	08.11.2021
Test Method	Gaschromatography

RESULTS

COMMENTS/ADDITIONAL INFORMATION:

Analyst Name (print): K.Kahrs

Date Signed: 08.11.2021

Analyst Name (sign):

GC-FID: Identification of Olefines, polymer, oxidized, hydrolyzed, distn. residues, from C20 alcohols manuf.
(NAFOL22+, Lot 03820/MA))

Gaschromatography (GC) – Identification of Olefines, polymer, oxidized, hydrolyzed, distn. residues, from C20 alcs. manuf. (Nafol 22+)

General description

The neat sample was injected into the GC and the separated peaks were recorded via flame ionisation detector.

Sample Olefines, polymer, oxidized, hydrolyzed, distn. residues, from C20 alcs. manuf. (Nafol 22+)

Lot-Number 03820/MA

GC-CONDITIONS

Gaschromatograph Agilent 6890
Detector FID

Column

- Type Fused Silica (crossed linked)
- Dimensions length 25 m / I.D. 0.20 mm
- Liquid Phase Dimethyl-Silicon (HP-1)
- Support Material

Conditions

- Sample pre-treatment 1 g sample was diluted in 10 g cyclohexane
- Carrier gas Helium
- Injection volume 1.0 µl
- Injector temperature 260 °C
- Detector temperature 280 °C
- Split ratio 1:100
- Initial oven temperature 90 °C
- Initial time 0.0 min.
- Oven temperature rate 20 °C/min.
- Final oven temperature 200 °C
- Final time 0 min.
- Oven temperature rate A 4 °C/min.
- Final oven temperature A 340 °C
- Final time A 20 min.

GC-FID: Identification of Olefines, polymer, oxidized, hydrolyzed, distn. residues, from C20 alcohols manuf. (NAFOL22+, Lot 03820/MA))

Peak table and GC chromatogram of Olefines, polymer, oxidized, hydrolyzed, distn. residues, from C20 alcohols manuf. (Nafol 22+)

All named compounds (peak > 0.1 area-%) were also identified by GC-MS.

	Sum 1- Alcohol	65,286
	Sum branched Alcohol	6,011
	Sum Diol	0,476
	Sum Aldehyd	0,527
	Sum n + iso Paraffin	4,029
	Sum n + iso Olefin	2,051
	Sum Ether	5,376
	Sum Ester	9,181
	Sum Vollacetal	0,452
	Sum unidentified	6,611
Total		100,000

System : GC03
 Project:Versand
 Method : gc03_22pl
 Datenfile:V(2010-06-29 07_21_30)_GC03_22pl_29.06.2010 05_58_49_2010069232
 Analyse gestartet von:krohnmk
 Bearbeitet von : Witt Maren

Acquired : 29.06.2010 06:08:01
 Processed : 08.11.2021 12:15:18
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Probeninfos:

Lims Nr.: 2010069232
 Lotnummer: A74283 Index: 0001

Produktbezeichnung: 22+0003 Probenstelle: SCHUPP

Kunde/Fahrweise: NOT DEFINED
 Anmeldedatum(LIMS): NOT DEFINED Kommentar: NOT DEFINED

CHROMATOGRAM METHOD REPORT :

Acquisition :
 Description
 MTH zur Bestimmung der Zusammensetzung von Nafol 22+
 Säule HP-1 25m*0,20mm*0,33µm
 1,0µl 1:10 verdünnt in Cyclohexan

Probandaten:

Dil.Faktor(Multiplikator): 1,000
 SampleAmt(MASS): 1,000 IstAmt(ISTDW): 0,000

Index	Time [Min]	RF	Area [µV.Min]	Area % [%]	Quantity [% Area]	Quantity* M [%]	Name	Group(s)
1	2.00	1.000	0.00144	0.001	0.00	0.001		
2	2.26	1.000	0.03221	0.023	0.02	0.023		
3	2.30	1.000	0.00223	0.002	0.00	0.002		
4	2.90	1.000	0.00274	0.002	0.00	0.002	Decanal	
5	3.28	1.000	0.05720	0.041	0.04	0.041	1-Decanol	
6	3.78	1.000	0.00427	0.003	0.00	0.003		
7	3.88	1.000	0.00615	0.004	0.00	0.004		
8	4.06	1.000	0.00499	0.004	0.00	0.004	Dodecanal	
9	4.45	1.000	0.14389	0.104	0.10	0.104	1-Dodecanol	
10	5.23	1.000	0.00487	0.004	0.00	0.004	Tetradecanal	
11	5.60	1.000	0.12648	0.091	0.09	0.091	1-Tetradecanol	
12	5.85	1.000	0.00260	0.002	0.00	0.002		
13	5.90	1.000	0.00184	0.001	0.00	0.001		
14	5.95	1.000	0.00240	0.002	0.00	0.002		
15	6.00	1.000	0.00198	0.001	0.00	0.001		
16	6.06	1.000	0.00164	0.001	0.00	0.001		
17	6.36	1.000	0.00141	0.001	0.00	0.001		
18	6.43	1.000	0.00445	0.003	0.00	0.003	Hexadecanal	
19	6.88	1.000	0.18762	0.135	0.14	0.135	1-Hexadecanol	
20	7.15	1.000	0.00305	0.002	0.00	0.002		
21	7.97	1.000	0.00438	0.003	0.00	0.003	Octadecanal	
22	8.38	1.000	0.00149	0.001	0.00	0.001		
23	8.50	1.000	0.00386	0.003	0.00	0.003		
24	8.56	1.000	0.47366	0.342	0.34	0.342	1-Octadecanol	
25	8.90	1.000	0.01004	0.007	0.01	0.007		
26	9.10	1.000	0.00276	0.002	0.00	0.002		
27	9.22	1.000	0.00397	0.003	0.00	0.003		
28	9.44	1.000	0.00326	0.002	0.00	0.002		
29	9.51	1.000	0.00164	0.001	0.00	0.001		
30	9.60	1.000	0.01517	0.011	0.01	0.011		
31	9.78	1.000	0.00822	0.006	0.01	0.006		
32	9.82	1.000	0.00387	0.003	0.00	0.003		
33	9.87	1.000	0.00245	0.002	0.00	0.002		

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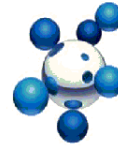


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Index	Time [Min]	RF	Area [µV.Min]	Area % [%]	Quantity [% Area]	Quantity* M [%]	Name	Group(s)
34	9.98	1.000	0.06443	0.047	0.05	0.047	n-Docosane	
35	10.02	1.000	0.01026	0.007	0.01	0.007	Eicosenal	
36	10.25	1.000	0.00199	0.001	0.00	0.001		
37	10.57	1.000	0.06100	0.044	0.04	0.044		
38	10.69	1.000	0.02326	0.017	0.02	0.017	1,3-Octadecandiol	
39	10.84	1.000	6.48956	4.684	4.68	4.684	1-Eisocanol	
40	11.18	1.000	0.01078	0.008	0.01	0.008		
41	11.25	1.000	0.00262	0.002	0.00	0.002		
42	11.58	1.000	0.00247	0.002	0.00	0.002		
43	11.66	1.000	0.00571	0.004	0.00	0.004		
44	11.74	1.000	0.00277	0.002	0.00	0.002		
45	11.84	1.000	0.00274	0.002	0.00	0.002		
46	11.91	1.000	0.00330	0.002	0.00	0.002		
47	11.99	1.000	0.06812	0.049	0.05	0.049		
48	12.04	1.000	0.06995	0.050	0.05	0.050		
49	12.09	1.000	0.05143	0.037	0.04	0.037		
50	12.18	1.000	0.02294	0.017	0.02	0.017		
51	12.28	1.000	0.16453	0.119	0.12	0.119	2-Decyl-1-Dodecanol	
52	12.35	1.000	0.05088	0.037	0.04	0.037		
53	12.49	1.000	0.05583	0.040	0.04	0.040	n-Tetracosane	
54	12.61	1.000	0.20796	0.150	0.15	0.150	Docosanal	
55	12.71	1.000	0.02806	0.020	0.02	0.020		
56	12.75	1.000	0.03963	0.029	0.03	0.029		
57	12.88	1.000	0.05691	0.041	0.04	0.041		
58	12.99	1.000	0.01252	0.009	0.01	0.009		
59	13.06	1.000	0.03790	0.027	0.03	0.027		
60	13.14	1.000	0.37790	0.273	0.27	0.273	C24-Ether	
61	13.22	1.000	0.02204	0.016	0.02	0.016		
62	13.37	1.000	0.21845	0.158	0.16	0.158	1,3-Eicosandiol	
63	13.77	1.000	55.32585	39.932	39.93	39.932	1-Docosanol	
64	13.82	1.000	0.09486	0.068	0.07	0.068		
65	13.98	1.000	0.10565	0.076	0.08	0.076	n-Pentacosane	
66	14.07	1.000	0.06240	0.045	0.05	0.045		
67	14.25	1.000	0.07806	0.056	0.06	0.056		
68	14.29	1.000	0.05156	0.037	0.04	0.037		
69	14.36	1.000	0.07943	0.057	0.06	0.057		
70	14.47	1.000	0.80738	0.583	0.58	0.583	11-Methylpentacosane	
71	14.64	1.000	0.63875	0.461	0.46	0.461	11-Methylenpentacosane	
72	14.70	1.000	0.30128	0.217	0.22	0.217	C24-Ester 1	
73	14.81	1.000	0.33404	0.241	0.24	0.241	C24-Ester 2	
74	14.89	1.000	0.74806	0.540	0.54	0.540	C24-Ester 3	
75	14.96	1.000	0.34541	0.249	0.25	0.249		
76	15.02	1.000	0.28097	0.203	0.20	0.203	C24-Ester 4	
77	15.22	1.000	2.93515	2.118	2.12	2.118	2-Decyl-1-Tetradecanol	
78	15.29	1.000	0.56090	0.405	0.40	0.405	n-Hexacosene	
79	15.43	1.000	0.83908	0.606	0.61	0.606	n-Hexacosane	
80	15.58	1.000	0.32773	0.237	0.24	0.237	Tetracosanal	
81	15.68	1.000	0.16245	0.117	0.12	0.117		
82	15.77	1.000	0.04407	0.032	0.03	0.032		
83	15.86	1.000	0.12434	0.090	0.09	0.090		
84	15.92	1.000	0.04814	0.035	0.03	0.035		
85	16.08	1.000	1.66122	1.199	1.20	1.199	Dodecyl-Tetradecylether	
86	16.18	1.000	0.04963	0.036	0.04	0.036		
87	16.30	1.000	0.11955	0.086	0.09	0.086		
88	16.34	1.000	0.25432	0.184	0.18	0.184	1,3-Docosandiol	
89	16.68	1.000	15.67722	11.315	11.32	11.315	1-Tetracosanol	
90	16.76	1.000	0.09457	0.068	0.07	0.068		

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91	16.94	1.000	0.15477	0.112	0.11	0.112	n-Heptacosane	
92	17.09	1.000	0.01721	0.012	0.01	0.012		
93	17.24	1.000	0.13200	0.095	0.10	0.095		
94	17.37	1.000	0.02056	0.015	0.01	0.015		
95	17.46	1.000	0.72846	0.526	0.53	0.526	11-Methylheptacosane	
96	17.64	1.000	0.55026	0.397	0.40	0.397	11-Methylenheptacosane	
97	17.70	1.000	0.31262	0.226	0.23	0.226	C26-Ester 1	
98	17.81	1.000	0.31669	0.229	0.23	0.229	C26-Ester 2	
99	17.93	1.000	0.71868	0.519	0.52	0.519	C26-Ester 3	
100	18.03	1.000	0.19943	0.144	0.14	0.144		
101	18.07	1.000	0.10083	0.073	0.07	0.073	C26-Ester 4	
102	18.22	1.000	1.14787	0.828	0.83	0.828	2-Dodecyl-1-Tetradecanol	
103	18.28	1.000	0.87782	0.634	0.63	0.634	2-Dexyl-1-Hexadecanol	
104	18.35	1.000	0.28077	0.203	0.20	0.203	n-Octacosene	
105	18.47	1.000	0.61389	0.443	0.44	0.443	n-Octacosane	
106	18.64	1.000	0.10061	0.073	0.07	0.073		
107	18.66	1.000	0.16192	0.117	0.12	0.117	Hexacosanal	
108	18.74	1.000	0.13251	0.096	0.10	0.096		
109	18.95	1.000	0.10080	0.073	0.07	0.073		
110	19.11	1.000	1.67090	1.206	1.21	1.206	C28-Ether	
111	19.23	1.000	0.03800	0.027	0.03	0.027		
112	19.31	1.000	0.03988	0.029	0.03	0.029		
113	19.34	1.000	0.02041	0.015	0.01	0.015		
114	19.41	1.000	0.16142	0.117	0.12	0.117	1,3-Tetracosandiol	
115	19.73	1.000	7.00706	5.057	5.06	5.057	1-Hexacosanol	
116	19.82	1.000	0.05502	0.040	0.04	0.040		
117	19.92	1.000	0.02570	0.019	0.02	0.019		
118	19.99	1.000	0.12472	0.090	0.09	0.090	n-Nonacosane	
119	20.13	1.000	0.09271	0.067	0.07	0.067		
120	20.29	1.000	0.06587	0.048	0.05	0.048		
121	20.47	1.000	0.51358	0.371	0.37	0.371	11-Methylnonacosane	
122	20.68	1.000	0.36255	0.262	0.26	0.262	11-Methylennonacosane	
123	20.73	1.000	0.32365	0.234	0.23	0.234	C28-Ester 1	
124	20.83	1.000	0.25448	0.184	0.18	0.184	C28-Ester 2	
125	21.00	1.000	0.41908	0.302	0.30	0.302	C28-Ester 3	
126	21.05	1.000	0.18428	0.133	0.13	0.133		
127	21.12	1.000	0.10699	0.077	0.08	0.077		
128	21.26	1.000	0.90455	0.653	0.65	0.653	2-Dodecyl-1-Hexadecanol	
129	21.34	1.000	0.58905	0.425	0.43	0.425	2-Decyl-1-Octadecanol	
130	21.41	1.000	0.14330	0.103	0.10	0.103	Stigmastane	
131	21.50	1.000	0.41411	0.299	0.30	0.299	n-Triacontane	
132	21.57	1.000	0.10016	0.072	0.07	0.072		
133	21.70	1.000	0.17701	0.128	0.13	0.128		
134	21.77	1.000	0.08371	0.060	0.06	0.060		
135	21.91	1.000	0.04149	0.030	0.03	0.030		
136	21.95	1.000	0.01941	0.014	0.01	0.014		
137	22.12	1.000	1.37215	0.990	0.99	0.990	C30-Ether	
138	22.31	1.000	0.06717	0.048	0.05	0.048		
139	22.36	1.000	0.02567	0.019	0.02	0.019		
140	22.46	1.000	0.08528	0.062	0.06	0.062		
141	22.53	1.000	0.03314	0.024	0.02	0.024		
142	22.75	1.000	3.16070	2.281	2.28	2.281	1-Octacosanol	
143	22.84	1.000	0.04684	0.034	0.03	0.034		
144	22.96	1.000	0.08573	0.062	0.06	0.062	n-Hentriacosane	
145	22.97	1.000	0.07044	0.051	0.05	0.051		
146	23.07	1.000	0.03407	0.025	0.02	0.025		
147	23.29	1.000	0.03733	0.027	0.03	0.027		

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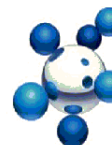


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148	23.45	1.000	0.27406	0.198	0.20	0.198	11-Methylhentriacontane	
149	23.64	1.000	0.36952	0.267	0.27	0.267	11-Methylenhentriacontane	
150	23.70	1.000	0.25803	0.186	0.19	0.186	C30-Ester 1	
151	23.80	1.000	0.13711	0.099	0.10	0.099	C30-Ester 2	
152	23.88	1.000	0.10196	0.074	0.07	0.074	C30-Ester 3	
153	23.99	1.000	0.42700	0.308	0.31	0.308		
154	24.23	1.000	0.67000	0.484	0.48	0.484	2-Dodecyl-1-Octadecanol	
155	24.31	1.000	0.33911	0.245	0.24	0.245	2-Decyl-1-Eicosanol	
156	24.45	1.000	0.32713	0.236	0.24	0.236	n-Dotriacontane	
157	24.54	1.000	0.06931	0.050	0.05	0.050		
158	24.65	1.000	0.09486	0.068	0.07	0.068		
159	24.73	1.000	0.06522	0.047	0.05	0.047		
160	24.85	1.000	0.04742	0.034	0.03	0.034		
161	25.02	1.000	0.98627	0.712	0.71	0.712	C32-Ether	
162	25.22	1.000	0.04191	0.030	0.03	0.030		
163	25.28	1.000	0.01139	0.008	0.01	0.008		
164	25.40	1.000	0.04240	0.031	0.03	0.031		
165	25.46	1.000	0.01108	0.008	0.01	0.008		
166	25.54	1.000	0.00177	0.001	0.00	0.001		
167	25.68	1.000	1.29379	0.934	0.93	0.934	1-Triacontanol	
168	25.76	1.000	0.03677	0.027	0.03	0.027		
169	25.81	1.000	0.02303	0.017	0.02	0.017		
170	25.88	1.000	0.03752	0.027	0.03	0.027		
171	26.14	1.000	0.00911	0.007	0.01	0.007		
172	26.21	1.000	0.01479	0.011	0.01	0.011		
173	26.30	1.000	0.17468	0.126	0.13	0.126	11-Methyltrtriacontane	
174	26.50	1.000	0.07789	0.056	0.06	0.056	11-Methylentriacontane	
175	26.55	1.000	0.21368	0.154	0.15	0.154	C32-Ester 1	
176	26.60	1.000	0.17352	0.125	0.13	0.125	C32-Ester 2	
177	26.67	1.000	0.21611	0.156	0.16	0.156	C32-Ester 3	
178	26.76	1.000	0.04472	0.032	0.03	0.032		
179	26.88	1.000	0.28782	0.208	0.21	0.208		
180	27.08	1.000	0.43421	0.313	0.31	0.313	2-Dodecyl-1-Eicosanol	
181	27.17	1.000	0.26670	0.192	0.19	0.192	2-Decyl-1-Docosanol	
182	27.27	1.000	0.15364	0.111	0.11	0.111	n-Tetracontane	
183	27.38	1.000	0.06514	0.047	0.05	0.047		
184	27.49	1.000	0.07652	0.055	0.06	0.055		
185	27.56	1.000	0.07593	0.055	0.05	0.055		
186	27.68	1.000	0.01451	0.010	0.01	0.010		
187	27.81	1.000	0.60760	0.439	0.44	0.439	C34-Ether	
188	27.98	1.000	0.01555	0.011	0.01	0.011		
189	28.02	1.000	0.02279	0.016	0.02	0.016		
190	28.11	1.000	0.01556	0.011	0.01	0.011		
191	28.20	1.000	0.03569	0.026	0.03	0.026		
192	28.36	1.000	0.00656	0.005	0.00	0.005		
193	28.48	1.000	0.51208	0.370	0.37	0.370	1-Dotriacontanol	
194	28.60	1.000	0.12384	0.089	0.09	0.089	C36-Vollacetal	
195	28.83	1.000	0.00246	0.002	0.00	0.002		
196	28.87	1.000	0.00226	0.002	0.00	0.002		
197	28.92	1.000	0.00638	0.005	0.00	0.005		
198	29.04	1.000	0.10711	0.077	0.08	0.077		
199	29.38	1.000	1.44237	1.041	1.04	1.041	C34-Ester	
200	29.62	1.000	0.10948	0.079	0.08	0.079		
201	29.72	1.000	0.03604	0.026	0.03	0.026		
202	29.82	1.000	0.28269	0.204	0.20	0.204		
203	29.89	1.000	0.16189	0.117	0.12	0.117		
204	29.99	1.000	0.10065	0.073	0.07	0.073		

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PAGECOUNT



System : GC03
 Project:Versand
 Method : gc03_22pl
 Datenfile:V(2010-06-29 07_21_30)_GC03_22pl_29.06.2010 05_58_49_2010069232
 Analyse gestartet von:krohnmk
 Bearbeitet von : Witt Maren

Acquired : 29.06.2010 06:08:01
 Processed : 08.11.2021 12:15:18
 Printed : 08.11.2021 12:16:43

Index	Time [Min]	RF	Area [µV.Min]	Area % [%]	Quantity [% Area]	Quantity* M [%]	Name	Group(s)
205	30.11	1.000	0.03035	0.022	0.02	0.022		
206	30.19	1.000	0.08901	0.064	0.06	0.064		
207	30.34	1.000	0.01073	0.008	0.01	0.008		
208	30.38	1.000	0.00537	0.004	0.00	0.004		
209	30.48	1.000	0.36533	0.264	0.26	0.264	C36-Ether	
210	30.65	1.000	0.04900	0.035	0.04	0.035		
211	30.77	1.000	0.00600	0.004	0.00	0.004		
212	30.88	1.000	0.01441	0.010	0.01	0.010		
213	31.04	1.000	0.01262	0.009	0.01	0.009		
214	31.16	1.000	0.30079	0.217	0.22	0.217	C38-Vollacetal	
215	31.40	1.000	0.00275	0.002	0.00	0.002		
216	31.45	1.000	0.00458	0.003	0.00	0.003		
217	31.49	1.000	0.00483	0.003	0.00	0.003		
218	31.65	1.000	0.09139	0.066	0.07	0.066		
219	31.95	1.000	1.46221	1.055	1.06	1.055	C36-Ester	
220	32.18	1.000	0.01783	0.013	0.01	0.013		
221	32.24	1.000	0.05412	0.039	0.04	0.039		
222	32.39	1.000	0.19822	0.143	0.14	0.143		
223	32.49	1.000	0.17166	0.124	0.12	0.124		
224	32.68	1.000	0.02298	0.017	0.02	0.017		
225	32.78	1.000	0.02222	0.016	0.02	0.016		
226	32.84	1.000	0.02748	0.020	0.02	0.020		
227	33.02	1.000	0.18467	0.133	0.13	0.133	C38-Ether	
228	33.18	1.000	0.04379	0.032	0.03	0.032		
229	33.29	1.000	0.00232	0.002	0.00	0.002		
230	33.44	1.000	0.01039	0.007	0.01	0.007		
231	33.56	1.000	0.07129	0.051	0.05	0.051		
232	33.72	1.000	0.12070	0.087	0.09	0.087	C40-Vollacetal	
233	33.93	1.000	0.01633	0.012	0.01	0.012		
234	33.98	1.000	0.01626	0.012	0.01	0.012		
235	34.12	1.000	0.04726	0.034	0.03	0.034		
236	34.42	1.000	1.37434	0.992	0.99	0.992	C38-Ester	
237	34.58	1.000	0.01778	0.013	0.01	0.013		
238	34.75	1.000	0.05940	0.043	0.04	0.043		
239	34.87	1.000	0.09457	0.068	0.07	0.068		
240	34.94	1.000	0.09258	0.067	0.07	0.067		
241	35.12	1.000	0.00817	0.006	0.01	0.006		
242	35.23	1.000	0.02137	0.015	0.02	0.015		
243	35.32	1.000	0.00194	0.001	0.00	0.001		
244	35.45	1.000	0.13012	0.094	0.09	0.094	C40-Ether	
245	35.58	1.000	0.03612	0.026	0.03	0.026		
246	35.76	1.000	0.00306	0.002	0.00	0.002		
247	35.87	1.000	0.08230	0.059	0.06	0.059	C42-Vollacetal	
248	36.02	1.000	0.01529	0.011	0.01	0.011		
249	36.14	1.000	0.06618	0.048	0.05	0.048		
250	36.28	1.000	0.02423	0.017	0.02	0.017		
251	36.41	1.000	0.00714	0.005	0.01	0.005		
252	36.50	1.000	0.02065	0.015	0.01	0.015		
253	36.61	1.000	0.05406	0.039	0.04	0.039		
254	36.77	1.000	1.23766	0.893	0.89	0.893	C40-Ester	
255	37.03	1.000	0.03080	0.022	0.02	0.022		
256	37.12	1.000	0.02164	0.016	0.02	0.016		
257	37.23	1.000	0.06483	0.047	0.05	0.047		
258	37.32	1.000	0.01933	0.014	0.01	0.014		
259	37.38	1.000	0.00541	0.004	0.00	0.004		
260	37.50	1.000	0.00675	0.005	0.00	0.005		
261	37.54	1.000	0.00159	0.001	0.00	0.001		

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PAGECOUNT

System : GC03
 Project:Versand
 Method : gc03_22pl
 Datenfile:V(2010-06-29 07_21_30)_GC03_22pl_29.06.2010 05_58_49_2010069232
 Analyse gestartet von:krohnmk
 Bearbeitet von : Witt Maren

Acquired : 29.06.2010 06:08:01
 Processed : 08.11.2021 12:15:18
 Printed : 08.11.2021 12:16:43

Index	Time [Min]	RF	Area [µV.Min]	Area % [%]	Quantity [% Area]	Quantity * M [%]	Name	Group(s)
262	37.61	1.000	0.00187	0.001	0.00	0.001		
263	37.76	1.000	0.04896	0.035	0.04	0.035	C42-Ether	
264	37.89	1.000	0.02083	0.015	0.02	0.015		
265	38.08	1.000	0.05932	0.043	0.04	0.043		
266	38.19	1.000	0.01558	0.011	0.01	0.011		
267	38.27	1.000	0.00967	0.007	0.01	0.007		
268	38.31	1.000	0.00237	0.002	0.00	0.002		
269	38.45	1.000	0.03964	0.029	0.03	0.029		
270	38.55	1.000	0.00575	0.004	0.00	0.004		
271	38.60	1.000	0.00271	0.002	0.00	0.002		
272	38.80	1.000	0.06474	0.047	0.05	0.047		
273	39.03	1.000	0.75020	0.541	0.54	0.541	C42-Ester	
274	39.22	1.000	0.00960	0.007	0.01	0.007		
275	39.32	1.000	0.00350	0.003	0.00	0.003		
276	39.47	1.000	0.02583	0.019	0.02	0.019		
277	39.57	1.000	0.01479	0.011	0.01	0.011		
278	39.98	1.000	0.04254	0.031	0.03	0.031	C44-Ether	
279	40.25	1.000	0.09170	0.066	0.07	0.066		
280	40.38	1.000	0.00222	0.002	0.00	0.002		
281	40.60	1.000	0.06087	0.044	0.04	0.044		
282	40.90	1.000	0.07926	0.057	0.06	0.057		
283	41.01	1.000	0.03515	0.025	0.03	0.025		
284	41.22	1.000	0.78928	0.570	0.57	0.570	C44-Ester	
285	41.71	1.000	0.02368	0.017	0.02	0.017		
286	41.81	1.000	0.00337	0.002	0.00	0.002		
287	42.02	1.000	0.00476	0.003	0.00	0.003		
288	42.17	1.000	0.00166	0.001	0.00	0.001		
289	42.28	1.000	0.01198	0.009	0.01	0.009		
290	42.48	1.000	0.10957	0.079	0.08	0.079		
291	43.32	1.000	0.01334	0.010	0.01	0.010		
292	43.81	1.000	0.28633	0.207	0.21	0.207	(C46-Ester)	
293	45.31	1.000	0.09342	0.067	0.07	0.067		
294	47.15	1.000	0.12014	0.087	0.09	0.087	(C48-Ester)	
295	48.97	1.000	0.04764	0.034	0.03	0.034		
296	51.56	1.000	0.04589	0.033	0.03	0.033	(C50-Ester)	
297	53.65	1.000	0.00821	0.006	0.01	0.006		
Total			138.54879	100.000	100.00			

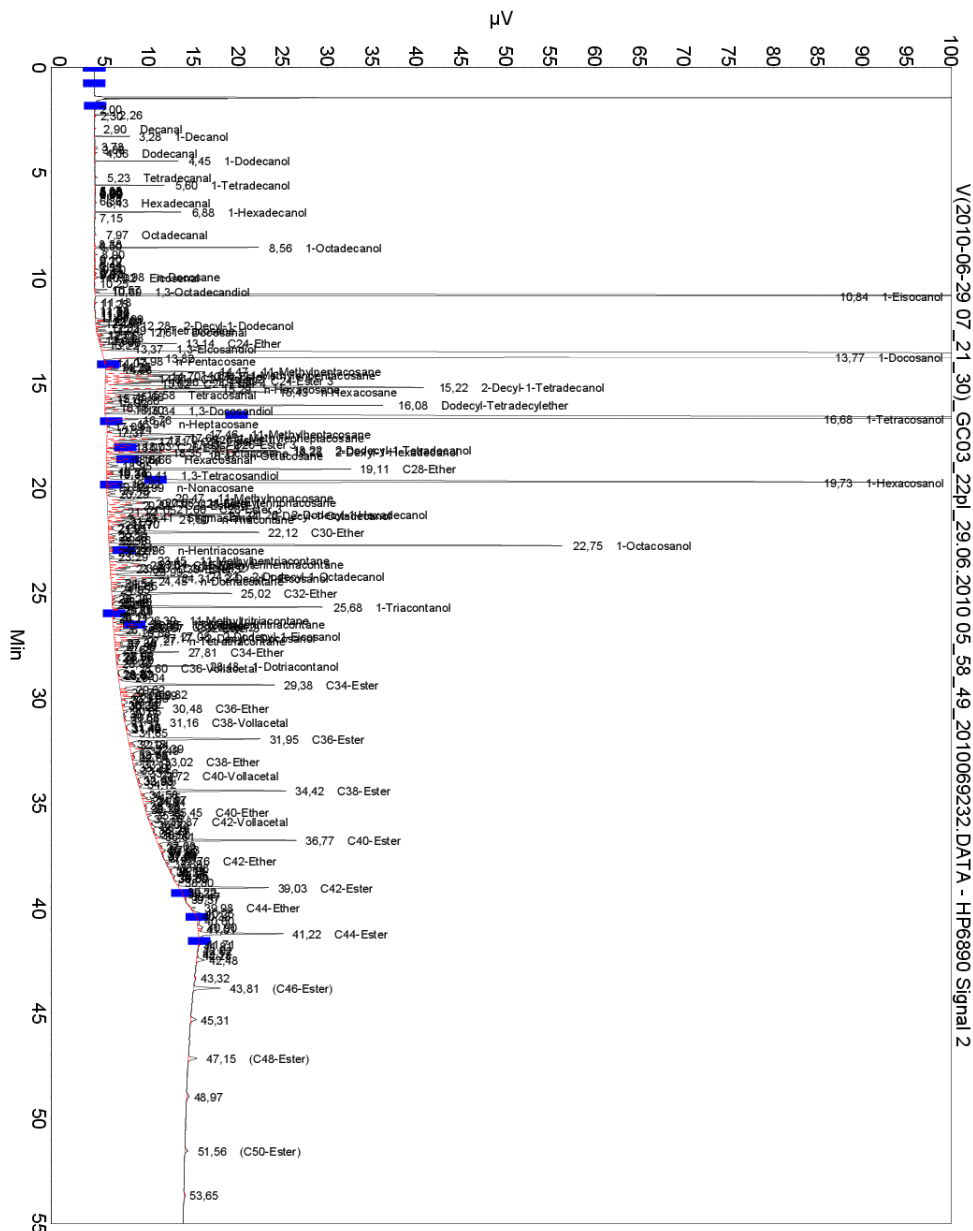
Index	Number of Peaks	RF	Area [µV.Min]	Area % [%]	Quantity [% Area]	Quantity * M [%]	Name
Total			0.0	0.000	0.00	0.000	

SUFFIX results:

Name	Quantity
SUM_OLP	71,7736878466027
AV	6,61309075572911

System : GC03
Project:Versand
Method : gc03_22pl
Datenfile:V(2010-06-29 07_21_30)_GC03_22pl_29.06.2010 05_58_49_2010069232
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PAGECOUNT

Index	Name	Area %
1	Decanal	0,002
2	1-Decanol	0,041
3	Dodecanal	0,004
4	1-Dodecanol	0,104
5	Tetradecanal	0,004
6	1-Tetradecanol	0,091
7	Hexadecanal	0,003
8	1-Hexadecanol	0,135
9	Octadecanal	0,003
10	1-Octadecanol	0,342
11	n-Docosane	0,047
12	Eicosenal	0,007
13	1,3-Octadecandiol	0,017
14	1-Eisocanol	4,684
15	2-Decyl-1-Dodecanol	0,119
16	n-Tetracosane	0,040
17	Docosanal	0,150
18	C24-Ether	0,273
19	1,3-Eicosandiol	0,158
20	1-Docosanol	39,932
21	n-Pentacosane	0,076
22	11-Methylpentacosane	0,583
23	11-Methylenpentacosane	0,461
24	C24-Ester 1	0,217
25	C24-Ester 2	0,241
26	C24-Ester 3	0,540
27	C24-Ester 4	0,203
28	2-Decyl-1-Tetradecanol	2,118
29	n-Hexacosene	0,405
30	n-Hexacosane	0,606
31	Tetracosanal	0,237
32	Dodecyl-Tetradecylether	1,199
33	1,3-Docosandiol	0,184
34	1-Tetracosanol	11,315
35	n-Heptacosane	0,112
36	11-Methylheptacosane	0,526
37	11-Methylenheptacosane	0,397
38	C26-Ester 1	0,226
39	C26-Ester 2	0,229
40	C26-Ester 3	0,519
41	C26-Ester 4	0,073
42	2-Dodecyl-1-Tetradecanol	0,828
43	2-Dexyl-1-Hexadecanol	0,634
44	n-Octacosene	0,203
45	n-Octacosane	0,443
46	Hexacosanal	0,117
47	C28-Ether	1,206
48	1,3-Tetracosandiol	0,117
49	1-Hexacosanol	5,057
50	n-Nonacosane	0,090
51	11-Methylnonacosane	0,371
52	11-Methylennonacosane	0,262

GC-FID: Identification of Olefines, polymer, oxidized, hydrolyzed, distn. residues, from C20 alcohols manuf.
(NAFOL22+, Lot 03820/MA))

53	C28-Ester 1	0,234
54	C28-Ester 2	0,184
55	C28-Ester 3	0,302
56	2-Dodecyl-1-Hexadecanol	0,653
57	2-Decyl-1-Octadecanol	0,425
58	Stigmastane	0,103
59	n-Triacontane	0,299
60	C30-Ether	0,990
61	1-Octacosanol	2,281
62	n-Hentriacosane	0,062
63	11-Methylhentriacontane	0,198
64	11-Methylenhentriacontane	0,267
65	C30-Ester 1	0,186
66	C30-Ester 2	0,099
67	C30-Ester 3	0,074
68	2-Dodecyl-1-Octadecanol	0,484
69	2-Decyl-1-Eicosanol	0,245
70	n-Dotriacontane	0,236
71	C32-Ether	0,712
72	1-Triacontanol	0,934
73	11-Methyltritriacontane	0,126
74	11-Methylentritriacontane	0,056
75	C32-Ester 1	0,154
76	C32-Ester 2	0,125
77	C32-Ester 3	0,156
78	2-Dodecyl-1-Eicosanol	0,313
79	2-Decyl-1-Docosanol	0,192
80	n-Tetratriacontane	0,111
81	C34-Ether	0,439
82	1-Dotriacontanol	0,370
83	C36-Vollacetal	0,089
84	C34-Ester	1,041
85	C36-Ether	0,264
86	C38-Vollacetal	0,217
87	C36-Ester	1,055
88	C38-Ether	0,133
89	C40-Vollacetal	0,087
90	C38-Ester	0,992
91	C40-Ether	0,094
92	C42-Vollacetal	0,059
93	C40-Ester	0,893
94	C42-Ether	0,035
95	C42-Ester	0,541
96	C44-Ether	0,031
97	C44-Ester	0,570
98	(C46-Ester)	0,207
99	(C48-Ester)	0,087
100	(C50-Ester)	0,033
101	Sum unidentified	6,611
Total		100,000