

It is of course, necessary that the solvents employed should be entirely volatile at the temperature of the water bath. In a comparison of results obtained on the same sample with.

a = ether, redistilled below 40° C.

b = " containing 4 per cent. alcohol.

c = petrolic ether, redistilled below 40° C.

d = " " distilled between 40° C. and 75° C.

Mr. Dawson obtained the following results:

NON-VOLATILE EXTRACTIVE.

A	B	C	D
28.28 28.50	28.54 28.48	20.51 21.03	20.91 21.01
Mean .. 28.39	28.51	20.77	20.96

The results prove that slight differences in the quality of the solvent do not greatly affect the extractive.

TABLE 1.

It is of interest to place on record the following analytical results obtained in these laboratories upon 30 commercial samples of mace which appear to be genuine or to contain traces only of foreign material.

Number.	Ash.		Non volatile extraction.			
	Total.	Insoluble.	Petrolether.	Ethyl ether.	Total.	Crude Fib.
2606	2.40	0.20	26.67	1.82	28.49	4.45
41871	3.30	1.05	24.00	3.91	27.91	4.90
41872	1.90	0.15	21.50	4.04	25.54	3.95
41873	3.65	0.35	28.66	4.92	33.58	6.75
53683	2.40	0.35	23.08	2.32	25.40	4.00
55022	2.25	0.20	26.82	2.34	29.16	3.95
56277	3.80	1.00	30.10	1.88	31.98	4.75
58388	1.75	0.10	28.74	1.76	30.50	3.66
59532	2.65	0.15	26.96	4.26	31.22	5.20
59535	3.55	0.35	29.22	4.66	33.88	6.00
61636	2.90	0.25	26.02	3.06	29.08	4.50
62361	2.00	0.05	26.06	2.18	28.24	4.10
63426	1.95	0.15	25.86	2.50	28.36	3.00
63429	1.85	0.02	25.86	2.24	28.10	3.80
66162	1.66	0.12	27.60	3.32	30.92	
60373	2.33	0.37	25.06	3.68	28.74	
64218	2.32	0.20	26.00	4.72	30.72	
64220	2.32	0.22	28.74	3.82	32.56	
58401			23.60	2.60	26.20	
58403			30.04	1.84	31.88	
58404			31.30	1.60	32.90	
70598			26.56	0.72	27.28	
70521			31.06	0.80	31.86	
70523			26.64	1.92	28.56	
70522			30.62	0.80	31.42	
69965			31.80	1.20	33.00	
54681			28.08	6.62	34.70	
54692			28.96	3.68	32.64	
58470			22.72	1.08	23.80	
61415	1.84	6.10	27.20	2.90	30.10	2.85
means	2.46	0.28	27.18	2.77	29.96	4.39