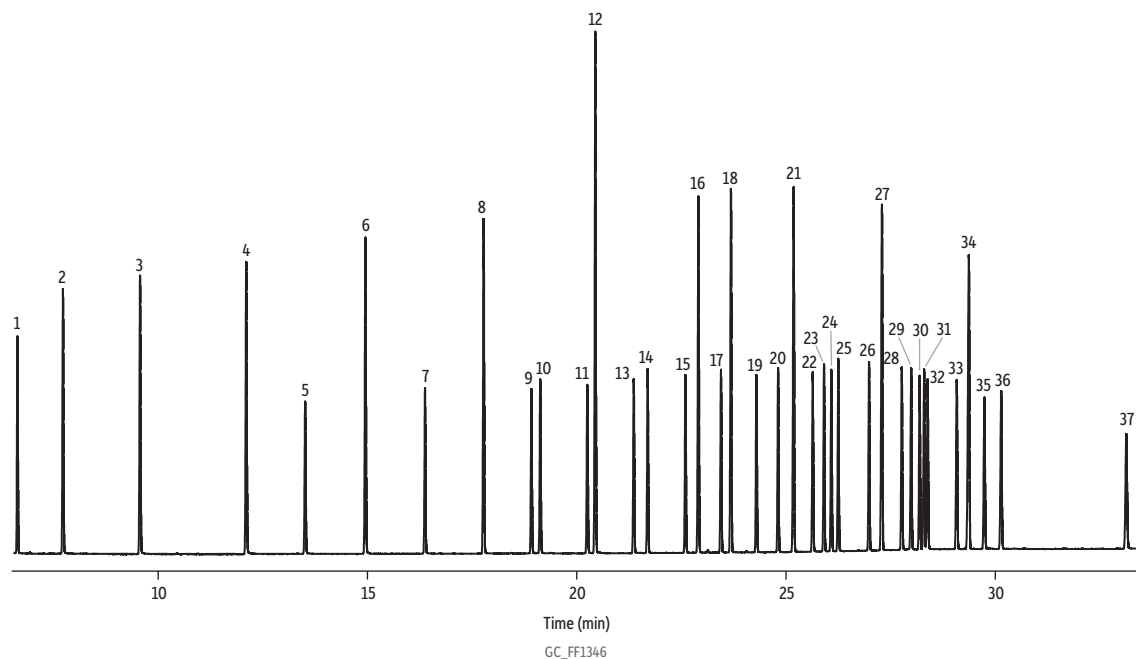


Food Industry FAMES on Rt-2560 by AOAC Method 996.06 Using H₂



Peaks	t _R (min)	Conc. (µg/mL)	Structural Nomenclature
1. Methyl butyrate	6.621	400	C4:0
2. Methyl caproate	7.711	400	C6:0
3. Methyl octanoate	9.556	400	C8:0
4. Methyl decanoate	12.094	400	C10:0
5. Methyl undecanoate	13.506	200	C11:0
6. Methyl dodecanoate	14.943	400	C12:0
7. Methyl tridecanoate	16.372	200	C13:0
8. Methyl myristate	17.772	400	C14:0
9. Methyl myristoleate	18.916	200	C14:1 (c9)
10. Methyl pentadecanoate	19.127	200	C15:0
11. Methyl pentadecenoate	20.252	200	C15:1 (c10)
12. Methyl palmitate	20.436	600	C16:0
13. Methyl palmitoleate	21.361	200	C16:1 (c9)
14. Methyl heptadecanoate	21.691	200	C17:0
15. Methyl heptadecenoate	22.595	200	C17:1 (c10)
16. Methyl stearate	22.899	400	C18:0
17. Methyl octadecenoate	23.442	200	C18:1 (t9)
18. Methyl oleate	23.677	400	C18:1 (c9)
19. Methyl linolelaidate	24.292	200	C18:2 (t9,t12)
20. Methyl linoleate	24.811	200	C18:2 (c9,c12)
21. Methyl arachidate	25.171	400	C20:0
22. Methyl linolenate	25.637	200	C18:3 (c6,c9,c12)
23. Methyl eicosenoate	25.903	200	C20:1 (c11)
24. Methyl linolenate	26.081	200	C18:3 (c9,c12,c15)
25. Methyl heneicosanoate	26.239	200	C21:0
26. Methyl eicosadienoate	26.980	200	C20:2 (c11,c14)
27. Methyl behenate	27.274	400	C22:0
28. Methyl eicosatrienoate	27.763	200	C20:3 (c8,c11,c14)
29. Methyl erucate	27.981	200	C22:1 (c13)
30. Methyl eicosatrienoate	28.190	200	C20:3 (c11,c14,c17)
31. Methyl arachidonate	28.286	200	C20:4 (c5,c8,c11,c14)
32. Methyl tricosanoate	28.381	200	C23:0
33. Methyl docosadienoate	29.071	200	C22:2 (c13,c16)
34. Methyl lignocerate	29.341	400	C24:0
35. Methyl eicosapentaenoate	29.737	200	C20:5 (c5,c8,c11,c14,c17)
36. Methyl nervonate	30.131	200	C24:1 (C15)
37. Methyl docosahexaenoate	33.132	200	C22:6 (c4,c7,c10,c13,c16,c19)

Column Rt-2560, 100 m, 0.25 mm ID, 0.20 µm (cat.# 13198)
Sample Food industry FAME mix (cat.# 35077)
Diluent: Hexane
Conc.: 10,000 µg/mL total concentration
Injection
Inj. Vol.: 1 µL split (split ratio 20:1)
Liner: Topaz 4.0 mm ID Precision inlet liner w/wool (cat.# 23305)
Inj. Temp.: 250 °C
Oven
Oven Temp.: 100 °C (hold 1.05 min) to 240 °C at 5.3 °C/min (hold 8.5 min)
Carrier Gas H₂, constant flow
Flow Rate: 1.75 mL/min
Detector FID @ 250 °C
Constant Column +
Constant Make-up: 52 mL/min
Hydrogen flow: 40 mL/min
Air flow: 400 mL/min
Data Rate: 50 Hz
Instrument Agilent 7890A GC
Notes Resolution of all peaks >1.5
 Method translated from He using the EZGC method translator (<https://blog.restek.com/?p=52224>).