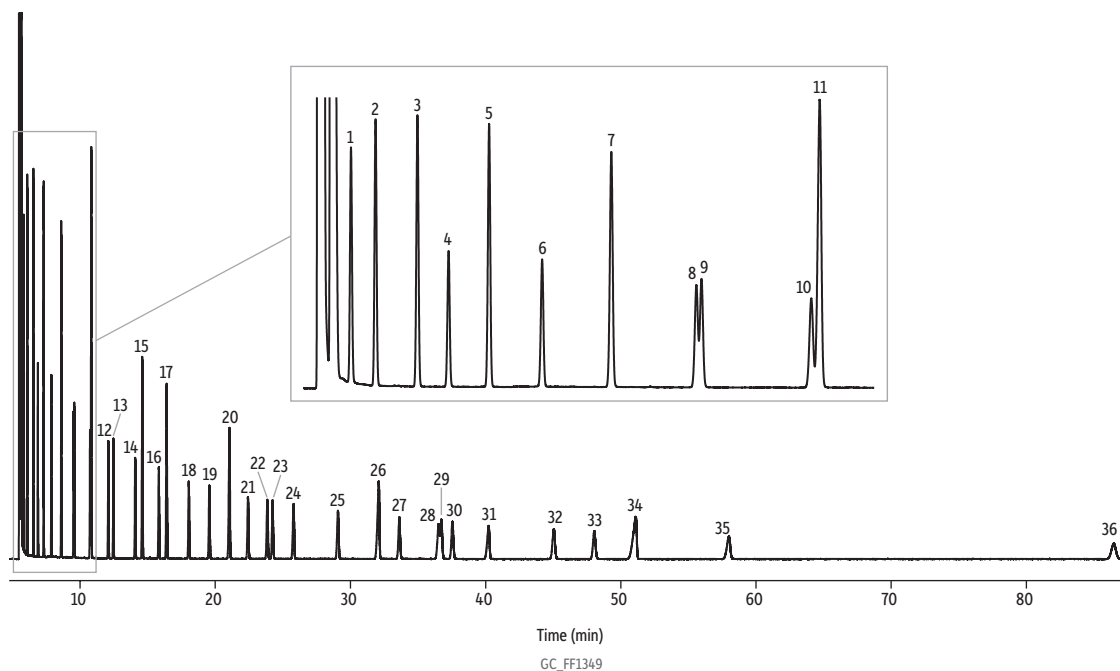


Food Industry FAMES on Rt-2560 by AOCs Method Ce-1h-05



Peaks	t _r (min)	Conc. (µg/mL)	Structural Nomenclature
1. Methyl caproate	5.830	400	C6:0
2. Methyl octanoate	6.092	400	C8:0
3. Methyl decanoate	6.539	400	C10:0
4. Methyl undecanoate	6.870	200	C11:0
5. Methyl dodecanoate	7.302	400	C12:0
6. Methyl tridecanoate	7.866	200	C13:0
7. Methyl myristate	8.603	400	C14:0
8. Methyl myristoleate	9.509	200	C14:1 (c9)
9. Methyl pentadecanoate	9.563	200	C15:0
10. Methyl pentadecenoate	10.733	200	C15:1 (C10)
11. Methyl palmitate	10.822	600	C16:0
12. Methyl palmitoleate	12.080	200	C16:1 (c9)
13. Methyl heptadecanoate	12.453	200	C17:0
14. Methyl heptadecenoate	14.065	200	C17:1 (c10)
15. Methyl stearate	14.597	400	C18:0
16. Methyl octadecenoate	15.817	200	C18:1 (t9)
17. Methyl oleate	16.393	400	C18:1 (c9)
18. Methyl linolelaidate	18.037	200	C18:2 (t9,t12)
19. Methyl linoleate	19.563	200	C18:2 (c9,c12)
20. Methyl arachidate	21.048	400	C20:0
21. Methyl linolenate	22.417	200	C18:3 (c6,c9,c12)
22. Methyl eicosenoate	23.849	200	C20:1 (c11)
23. Methyl linolenate	24.242	200	C18:3 (c9,c12,c15)
24. Methyl heneicosanoate	25.794	200	C21:0
25. Methyl eicosadienoate	29.073	200	C20:2 (c11,c14)
26. Methyl behenate	32.095	400	C22:0
27. Methyl eicosatrienoate	33.613	200	C20:3 (c8,c11,c14)
28. Methyl erucate	36.531	200	C22:1 (c13)
29. Methyl eicosatrienoate	36.727	200	C20:3 (c11,c14,c17)
30. Methyl arachidonate	37.548	200	C20:4 (c5,c8,c11,c14)
31. Methyl tricosanoate	40.227	200	C23:0
32. Methyl docosadienoate	45.045	200	C22:2 (c13,c16)
33. Methyl eicosapentaenoate	48.043	200	C20:5 (c5,c8,c11,c14,c17)
34. Methyl lignocerate	51.086	400	C24:0
35. Methyl nervonate	58.002	200	C24:1 (c15)
36. Methyl docosahexaenoate	86.473	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.: 180 °C (hold 90 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 Hydrogen flow optimized to achieve effective linear velocity (<https://blog.restek.com/?p=52224>).
 C4:0 Methyl butyrate (623-42-7) elutes in the solvent front.