Chromatography Solutions

Application note # C-13122

Fast Separation of *cis/trans* FAME Isomers using the Avantor® Hichrom HI-10 Phase

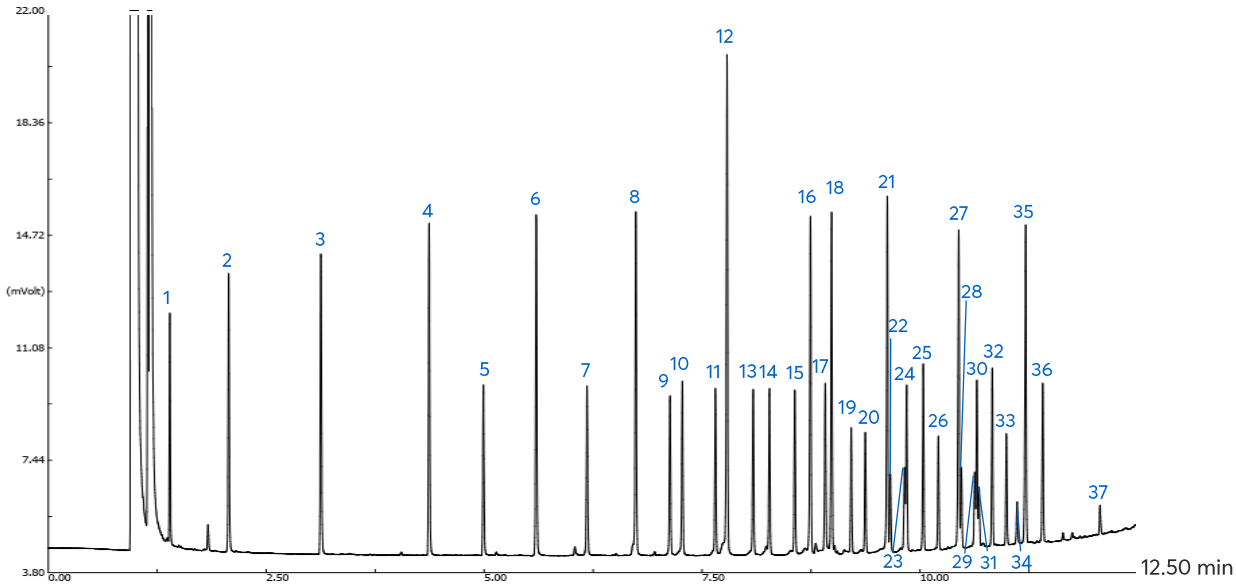

Figure 1: Fast separation of *cis/trans* FAME isomers using the Avantor® Hichrom HI-10 phase.

Method Details

CONDITIONS

Oven Program:	60 °C, 15 °C/min, 250 °C
Carrier Gas:	Hydrogen, 150 kPa
Injector:	Split, 250 °C, 0.5 µL, 1:250 split ratio
Detector:	FID, 255 °C

The HI-10 is a high polarity phase with a 100% cyanopropyl polysiloxane composition. It is well suited for the analysis of FAMEs, especially for the separation of cis/trans isomers of FAMEs.

PEAK IDENTIFICATION

1. C4:0
2. C6:0
3. C8:0
4. C10:0
5. C11:0
6. C12:0
7. C13:0
8. C14:0
9. C14:1
10. C15:0
11. C15:1
12. C16:0
13. C16:1
14. C17:0
15. C17:1
16. C18:0
17. C18:1n9 *trans*
18. C18:1n9 *cis*
19. C18:2n6 *trans*
20. C18:2n6 *cis*
21. C20:0
22. C18:3n6
23. C18:3n3
24. C20:1n9
25. C21:0
26. C20:2
27. C22:0
28. C20:3n6
29. C20:3n3
30. C22:1n9
31. C20:4n6
32. C23:0
33. C22:2
34. C20:5n3
35. C24:0
36. C24:1n9
37. C22:6n3

ORDERING TABLE

Product	Details	Dimensions	Part Number
Avantor® Hichrom HI-10	FAST GC Column	0.20 mm, 0.20 µm, 30 m	HI26-20-020-30

Avantor®