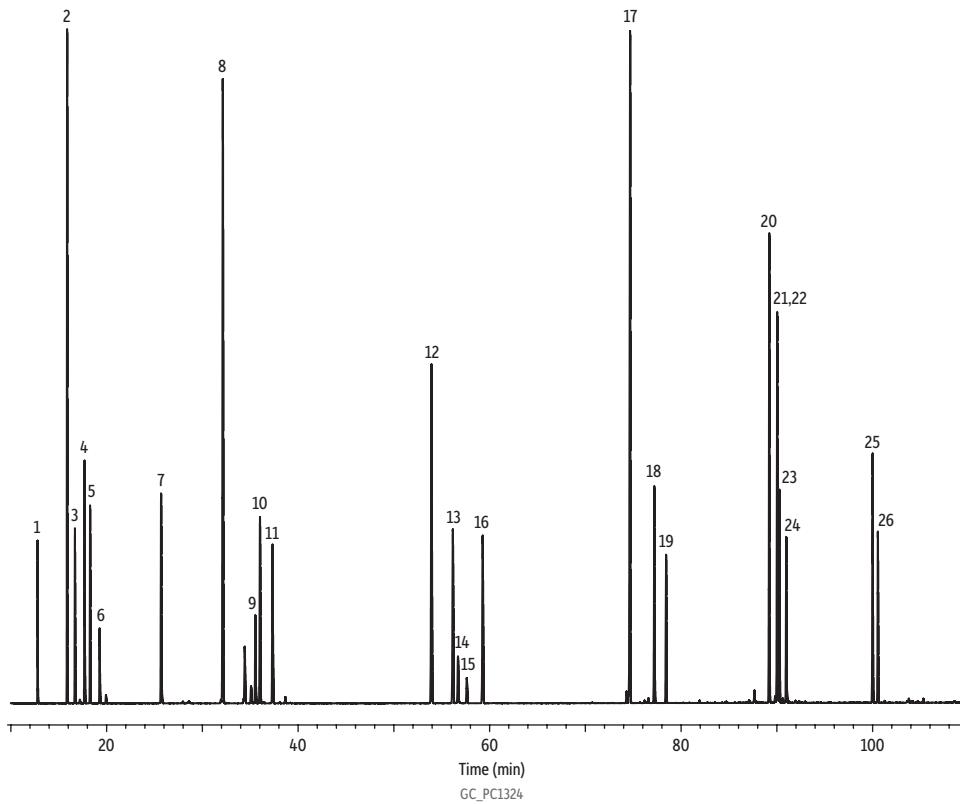


Olefins on Rtx-DHA-100 (ASTM D6729-14)



| Peaks | tr (min) | Conc. (wt.%) | Peaks | tr (min) | Conc. (wt.%) |
|-----------------------------|----------|--------------|-----------------------------|----------|--------------|
| 1. 3-Methyl-1-butene | 12.791 | 1.534 | 14. <i>cis</i> -3-Heptene | 56.703 | 1.020 |
| 2. 1-Pentene | 15.875 | 8.786 | 15. <i>trans</i> -2-Heptene | 57.626 | 0.530 |
| 3. 2-Methyl-1-butene | 16.690 | 2.211 | 16. <i>cis</i> -2-Heptene | 59.286 | 3.418 |
| 4. 2-Methyl-1,3-butadiene | 17.691 | 3.680 | 17. 1-Octene | 74.681 | 11.339 |
| 5. <i>trans</i> -2-Pentene | 18.274 | 2.852 | 18. <i>trans</i> -2-Octene | 77.215 | 3.453 |
| 6. <i>cis</i> -2-Pentene | 19.269 | 1.107 | 19. <i>cis</i> -2-Octene | 78.439 | 2.312 |
| 7. 4-Methyl-1-pentene | 25.688 | 3.398 | 20. 1-Nonene | 89.222 | 6.912 |
| 8. 1-Hexene | 32.136 | 11.248 | 21. <i>cis</i> -4-Nonene | 90.047 | 4.365 |
| 9. <i>trans</i> -2-Hexene | 35.539 | 1.632 | 22. <i>trans</i> -3-Nonene | 90.047 | 2.315 |
| 10. 2-Methyl-2-pentene | 36.026 | 3.444 | 23. <i>cis</i> -3-Nonene | 90.281 | 3.027 |
| 11. <i>cis</i> -2-Hexene | 37.336 | 2.921 | 24. <i>trans</i> -2-Nonene | 90.991 | 2.282 |
| 12. 1-Heptene | 53.941 | 6.787 | 25. 2-Methyl-1-nonene | 100.011 | 3.412 |
| 13. <i>trans</i> -3-Heptene | 56.169 | 3.747 | 26. 1-Decene | 100.559 | 2.265 |

Column Rtx-DHA-100, 100 m, 0.25 mm ID, 0.50 µm (cat.# 10148)
Sample DHA olefins standard (cat.# 30727)
Injection
 Inj. Vol.: 0.2 µL split (split ratio 200:1)
 Liner: Topaz 4.0 mm ID Precision inlet liner w/wool (cat.# 23305)
 Inj. Temp.: 250 °C
Oven
 Oven Temp.: 0 °C (hold 15 min) to 50 °C at 1 °C/min to 130 °C at 2 °C/min to 270 °C at 4 °C/min
Carrier Gas He, constant pressure
 Linear Velocity: 24 cm/sec @ 35 °C
Detector FID @ 300 °C
 Make-up Gas
 Flow Rate: 30 mL/min
 Make-up Gas
 Type: N₂
 Hydrogen flow: 40 mL/min
 Air flow: 370 mL/min
Instrument Agilent 7890A GC