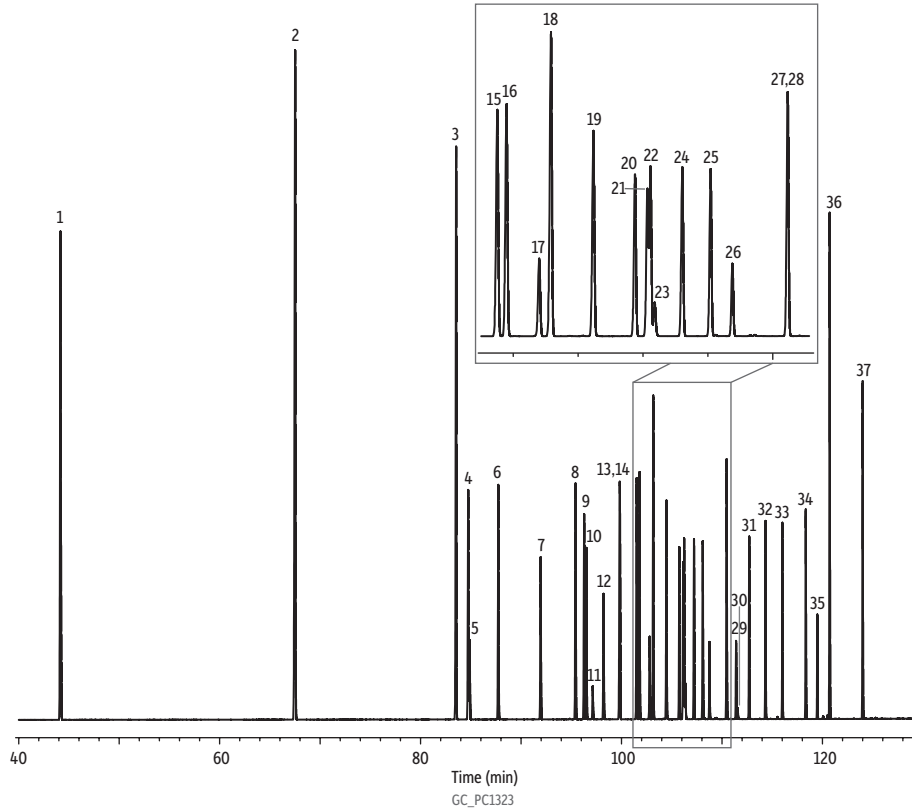


# Aromatics on Rtx-DHA-100 (ASTM D6729-14)



| Peaks                           | tr (min) | Conc. (wt.%) | Peaks  | tr (min) | Conc. (wt.%) |
|---------------------------------|----------|--------------|--|----------|--------------|
| 1. Benzene                      | 44.164   | 8.255        | 19. 1-Methyl-2-isopropylbenzene                  | 104.467  | 2.806        |
| 2. Toluene                      | 67.519   | 12.342       | 20. 1-Methyl-3- <i>n</i> -propylbenzene          | 105.750  | 2.084        |
| 3. Ethylbenzene                 | 83.534   | 8.248        | 21. 1-Methyl-4- <i>n</i> -propylbenzene          | 106.133  | 2.073        |
| 4. <i>m</i> -Xylene             | 84.735   | 3.108        | 22. <i>n</i> -Butylbenzene                       | 106.228  | 2.077        |
| 5. <i>p</i> -Xylene             | 84.881   | 1.041        | 23. 1,3-Dimethyl-5-ethylbenzene                  | 106.356  | 0.407        |
| 6. <i>o</i> -Xylene             | 87.735   | 3.125        | 24. 1-Methyl-2- <i>n</i> -propylbenzene          | 107.209  | 2.148        |
| 7. Isopropylbenzene             | 91.943   | 2.085        | 25. 1,4-Dimethyl-2-ethylbenzene                  | 108.081  | 2.076        |
| 8. <i>n</i> -Propylbenzene      | 95.419   | 3.091        | 26. 1,2-Dimethyl-4-ethylbenzene                  | 108.752  | 0.915        |
| 9. 1-Methyl-3-ethylbenzene      | 96.274   | 2.795        | 27. 1,2-Dimethyl-3-ethylbenzene                  | 110.459  | 2.152        |
| 10. 1-Methyl-4-ethylbenzene     | 96.504   | 2.070        | 28. 1,3-Dimethyl-2-ethylbenzene                  | 110.459  | 0.799        |
| 11. 1,3,5-Trimethylbenzene      | 97.127   | 0.422        | 29. 1,2,4,5-Tetramethylbenzene                   | 111.398  | 0.860        |
| 12. 1-Methyl-2-ethylbenzene     | 98.207   | 1.571        | 30. (2-Methylbutyl)benzene                       | 111.560  | 0.118        |
| 13. 1,2,4-Trimethylbenzene      | 99.821   | 2.066        | 31. 1- <i>tert</i> -Butyl-2-methylbenzene        | 112.705  | 2.077        |
| 14. <i>tert</i> -Butylbenzene   | 99.821   | 2.058        | 32. Pentylbenzene                                | 114.328  | 2.058        |
| 15. Isobutylbenzene             | 101.503  | 3.099        | 33. 1- <i>tert</i> -Butyl-4-ethylbenzene         | 116.012  | 2.076        |
| 16. <i>sec</i> -Butylbenzene    | 101.787  | 3.090        | 34. 1,3,5-Triethylbenzene                        | 118.334  | 2.087        |
| 17. 1-Methyl-3-isopropylbenzene | 102.795  | 1.066        | 35. 1,2,4-Triethylbenzene                        | 119.488  | 1.014        |
| 18. 1-Methyl-4-isopropylbenzene | 103.158  | 4.126        | 36. Hexylbenzene                                 | 120.716  | 5.155        |
|                                 |          |              | 37. 1- <i>tert</i> -Butyl-3,4,5-trimethylbenzene | 123.999  | 3.355        |

**Column** Rtx-DHA-100, 100 m, 0.25 mm ID, 0.50  $\mu$ m (cat.# 10148)  
**Sample** DHA aromatics standard (cat.# 30729)  
**Injection**  
 Inj. Vol.: 0.2  $\mu$ L 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: N<sub>2</sub>  
 Hydrogen flow: 40 mL/min  
 Air flow: 370 mL/min  
**Instrument** Agilent 7890A GC