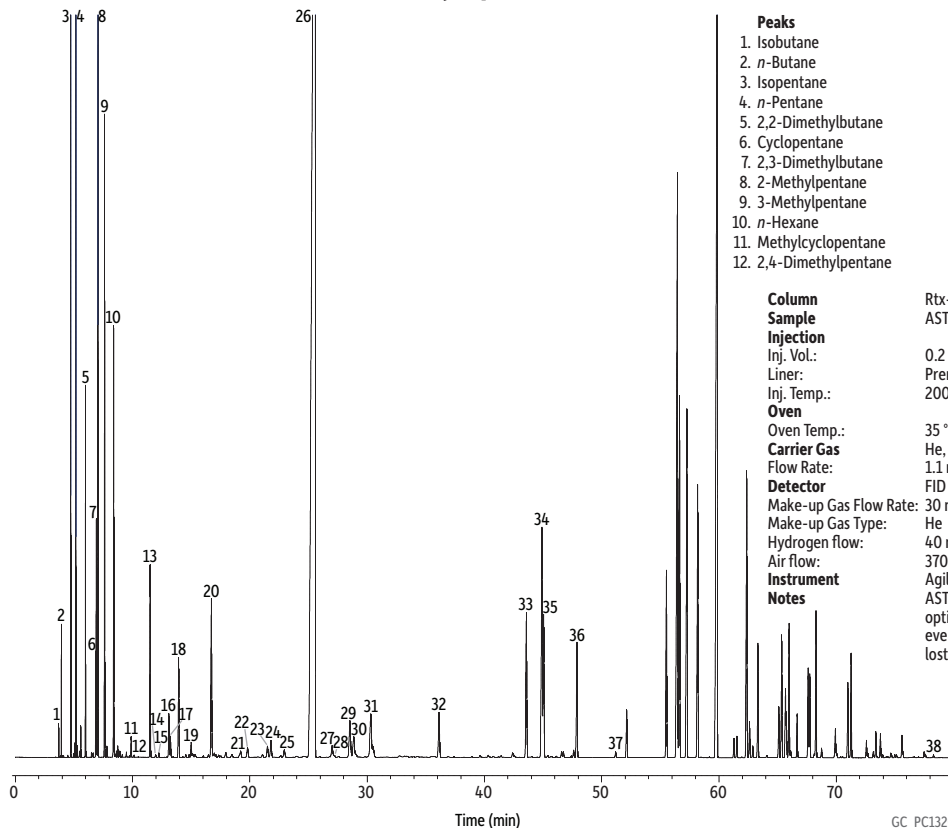


Reformate Standard on Rtx-DHA 50 by Optimized ASTM D5134-13



Peaks

- | | | |
|-------------------------|-------------------------|-----------------------------|
| 1. Isobutane | 13. Benzene | 26. Toluene |
| 2. <i>n</i> -Butane | 14. 3,3-Dimethylpentane | 27. 2,3-Dimethylhexane |
| 3. Isopentane | 15. Cyclohexane | 28. 2-Methyl-3-ethylpentane |
| 4. <i>n</i> -Pentane | 16. 2-Methylhexane | 29. 2-Methylheptane |
| 5. 2,2-Dimethylbutane | 17. 2,3-Dimethylpentane | 30. 4-Methylheptane |
| 6. Cyclopentane | 18. 3-Methylhexane | 31. 3-Methylheptane |
| 7. 2,3-Dimethylbutane | 19. 3-Ethylpentane | 32. <i>n</i> -Octane |
| 8. 2-Methylpentane | 20. <i>n</i> -Heptane | 33. Ethylbenzene |
| 9. 3-Methylpentane | 21. 2,2-Dimethylhexane | 34. 1,3-Dimethylbenzene |
| 10. <i>n</i> -Hexane | 22. Ethylcyclopentane | 35. 1,4-Dimethylbenzene |
| 11. Methylcyclopentane | 23. 2,5-Dimethylhexane | 36. 1,2-Dimethylbenzene |
| 12. 2,4-Dimethylpentane | 24. 2,4-Dimethylhexane | 37. <i>n</i> -Nonane |
| | 25. 3,3-Dimethylhexane | 38. <i>n</i> -Dodecane |

Column

Sample

Injection

Inj. Vol.:

Liner:

Inj. Temp.:

Oven

Oven Temp.:

Carrier Gas

Flow Rate:

Detector

Make-up Gas Flow Rate:

Make-up Gas Type:

Hydrogen flow:

Air flow:

Instrument

Notes

Rtx-DHA-50, 50 m, 0.20 mm ID, 0.50 μ m (cat.# 10147)

ASTM D5134 qualitative reformate standard (DCG Partnership I, LTD)

0.2 μ L split (split ratio 200:1)

Premium 4.0 mm ID Precision inlet liner w/ wool (cat.# 23305)

200 °C

35 °C (hold 30 min) to 200 °C at 2 °C/min

He, constant flow

1.1 mL/min

FID @ 250 °C

30 mL/min

He

40 mL/min

370 mL/min

Agilent 7890B GC

ASTM method D5134-13 was run at a higher flow rate that was optimized to increase column efficiency. At this optimized flow rate, even though compounds elute faster, resolution between peaks is not lost and the elution order is preserved.



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