1-Hexene on Rxi-LAO (60 m x 0.25 mm x 1.4 µm)

Peaks
t(t/min)
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1. 3-Methyl-1-pentene 14.06
2. 3-Methylpentane 18.31
3. 1-Hexene 18.04
4. Hexane 18.31
5. 2-Ethyl-1-butene 19.08
6. cis-3-Hexene 19.61
7. trans-2-Hexene 19.61
8. cis-3-Methyl-2-pentene 20.41
9. cis-2-Hexene 20.81
10. trans-3-Methyl-2-pentene 21.19
11. Methyl-cyclopentene 22.87
12. Cyclohexene 23.24

Column: Rxi-LAO, 60 m, 0.25 mm ID, 1.4 µm (cat.# 13876)
Standard/Sample: 1-Hexene
Conc.: Neat solvent
Injection:
Inj. Vol.: 1 µL split (split ratio 100:1)
Liner: Topaz 4.0 mm ID low pressure drop Precision inlet liner w/wool (cat.# 23309)
Inj. Temp.: 250 °C
Split Vent Flow Rate: 125 mL/min
Oven:
Oven Temp.: 35 °C (hold 20 min) to 160 °C at 30 °C/min (hold 20 min)
Carrier Gas: He, constant flow
Linear Velocity: 23 cm/sec @ 35 °C
Detector: FID @ 300 °C
Make-up Gas Flow Rate: 45 mL/min
Make-up Gas Type: N2
Hydrogen flow: 40 mL/min
Air flow: 450 mL/min
Data Rate: 20 Hz
Instrument: Agilent 7890B GC
Sample Preparation: The sample was pipetted into a 2 mL vial (cat.# 21142) and capped with a short screw cap (cat.# 24498).
Notes:
• Compounds were tentatively identified using a mass spectrometer and method translation.
• A 208V instrument was used.
• Benzene is not present in the sample, but if it were, it would elute at 23.73 minutes under these conditions.