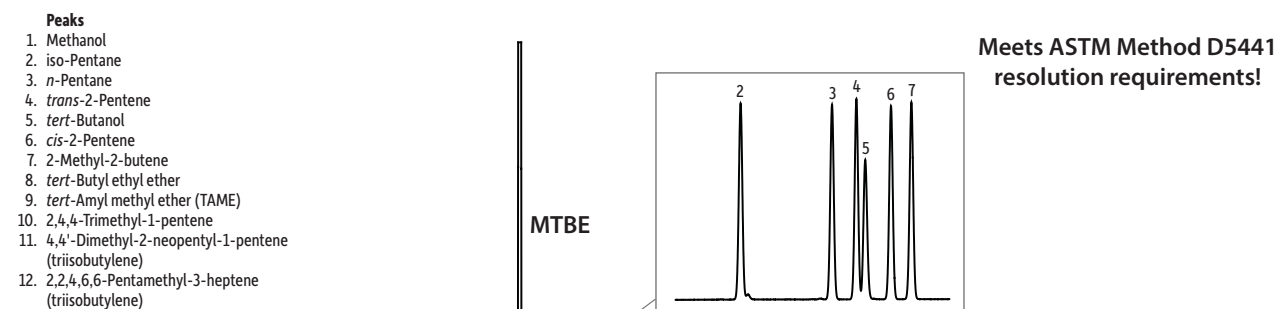


Impurities in Methyl-*t*-Butyl Ether (MTBE) on Rtx®-DHA-150 (ASTM D5441)



Time (min)
GC_PC1269

Column Rtx®-DHA-150, 150 m, 0.25 mm ID, 1.00 µm (cat.# 10149)
Sample ASTM D5441 MTBE contaminants mix
Conc.: 1 % (w/w) each component in MTBE
Injection
 Inj. Vol.: 0.2 µL split (split ratio 200:1)
 Liner: Cup splitter (cat.# 20710)
 Inj. Temp.: 200 °C
Oven
 Oven Temp.: 60 °C (hold 13 min) to 180 °C at 10 °C/min (hold 20 min)
Carrier Gas He, constant flow
 Flow Rate: 2.2 mL/min
 Linear Velocity: 23 cm/sec @ 60 °C

Detector FID @ 250 °C
 Make-up Gas
 Flow Rate: 24 mL/min
 Make-up Gas
 Type: H₂
 Hydrogen flow: 30 mL/min
 Air flow: 358 mL/min
Instrument Agilent 7890B GC
Notes Resolution between *trans*-2-pentene/*tert*-butanol and *tert*-butanol/*cis*-2-pentene meets the ASTM Method D5441 requirement of $R \geq 1.3$.

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