Gases
Analysis of permanent gases on a thick film column

Application Note

Environmental

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Introduction
Gas chromatography with a thick film Agilent CP-Molsieve column separates six permanent gases in eight minutes.
Conditions

Technique : GC-capillary
Column : Agilent CP-Molsieve 5Å, 0.53 mm x 25 m fused silica
          PLOT CP-Molsieve 5Å (df = 50 μm)
          (Part no. CP7538)
Temperature : 100 °C
Carrier Gas : H₂
Injector : Split, 100 mL/min
Detector : TCD
Sample Size : 10 μL
Concentration Range : % range

Peak identification
1. helium
2. neon
3. argon + oxygen
4. nitrogen
5. methane
6. carbon monoxide

Remarks:
1. For same application on a thin film column
   see Application Note 1246
2. For same application at 30 °C oven
temperature see Application Note 1249