

## **Permanent gases**

# Analysis of permanent gases at ppm level

## Application Note

Environmental

### **Authors**

Agilent Technologies, Inc.

### **Introduction**

Gas chromatography with a custom-made Agilent CP-Molsieve 5Å column separates eight permanent gases at the ppm level in nine minutes.



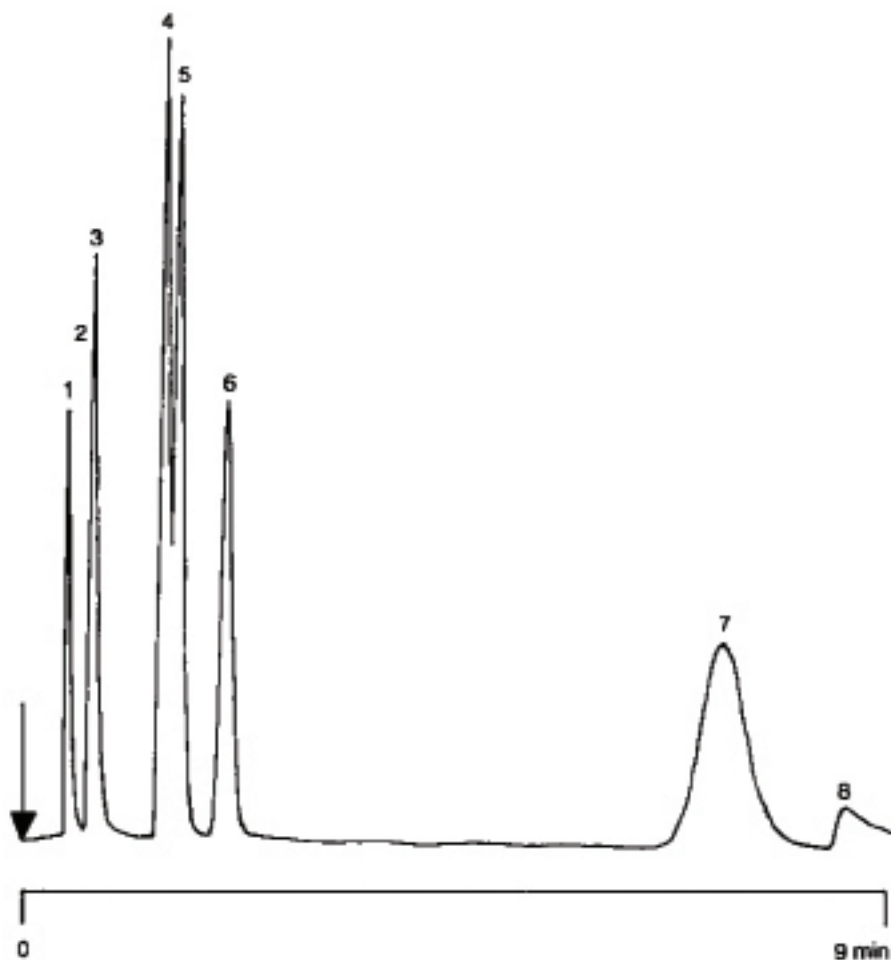
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## Conditions

Technique : GC-capillary  
Column : Agilent CP-Molsieve 5Å, 0.53 mm x 25 m fused silica  
PLOT Molsieve 5Å (df = 50 µm) (Part no. CP7538)  
Temperature : 31 °C  
Carrier Gas : He, 80 cm/s  
Injector : Direct  
T = 50 °C  
Detector : Discharge Ionization Detector  
T = 75 °C  
Sample Size : 1000 µL

## Peak identification

1. hydrogen	(2.8 ppm)
2. argon	(0.81 ppm)
3. oxygen	(0.45 ppm)
4. nitrogen	(2.8 ppm)
5. krypton	(1.1 ppm)
6. methane	(0.9 ppm)
7. xenon	(1.6 ppm)
8. carbon monoxide	(1.0 ppm)



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