Application Note

Materials Testing & Research

Authors
Agilent Technologies, Inc.

Introduction
Separation of hydrogen and helium by GC on an Agilent CP-Molsieve column in 7.5 minutes.
Conditions

Technique: GC
Column: Agilent CP-Molsieve 5Å, 0.53 mm x 50 m fused silica (df = 50 μm) (Part no. CP7539)
Temperature: 40 °C
Carrier Gas: Nitrogen, 50kPa (7.2 psi)
Injector: Splitter, 40 mL/min
Detector: μ-TCD, 200 °C
Sample Size: 40 μL
Concentration Range: 1% in nitrogen

Peak identification
1. helium
2. hydrogen