Permanent gases
Separation of deuterated hydrogen

Application Note

Environmental

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Introduction
Gas chromatography with a custom-made Agilent CP-Molsieve 5Å column determines deuterated hydrogen in five minutes.
Conditions

Technique: GC-capillary
Column: Agilent CP-Molsieve 5Å, 0.32 mm x 75 m fused silica WCOT CP-Molsieve 5Å (df = 30 μm) Part no. CP7536 + Part no. CP7540 coupled together
Temperature: -78.5 °C
Carrier Gas: H₂, 200 kPa (2 bar, 28.6 psi)
Injector: Splitter

Peak identification
1. helium
2. neon
3. HD
4. D₂