Permanent gases

Application Note

Environmental

Authors
Agilent Technologies, Inc.

Introduction
Gas chromatography with an Agilent CP-Molsieve 5Å column module and Agilent 490 Micro GC separates hydrogen, oxygen, nitrogen, helium, and neon in 70 seconds.
**Conditions**

Technique: Micro GC  
Column: Agilent CP-Molsieve 5Å (HR)  
Temperature: 30 °C  
Carrier Gas: Ar  
Detector: TCD

**Peak identification**

<table>
<thead>
<tr>
<th></th>
<th>Concentration:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>helium</td>
</tr>
<tr>
<td>2</td>
<td>neon</td>
</tr>
<tr>
<td>3</td>
<td>hydrogen</td>
</tr>
<tr>
<td>4</td>
<td>oxygen</td>
</tr>
<tr>
<td>5</td>
<td>nitrogen</td>
</tr>
</tbody>
</table>

1. helium  
2. neon  
3. hydrogen  
4. oxygen  
5. nitrogen  

www.agilent.com/chem

This information is subject to change without notice.  
© Agilent Technologies, Inc. 2011  
Printed in the USA  
31 October, 2011  
First published prior to 11 May, 2010  
A008690