



Pyridines

Separation of pyridine and other amines

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography using an Agilent CP-Wax 51 for Amines column separates pyridine and seven other amines in eight minutes.



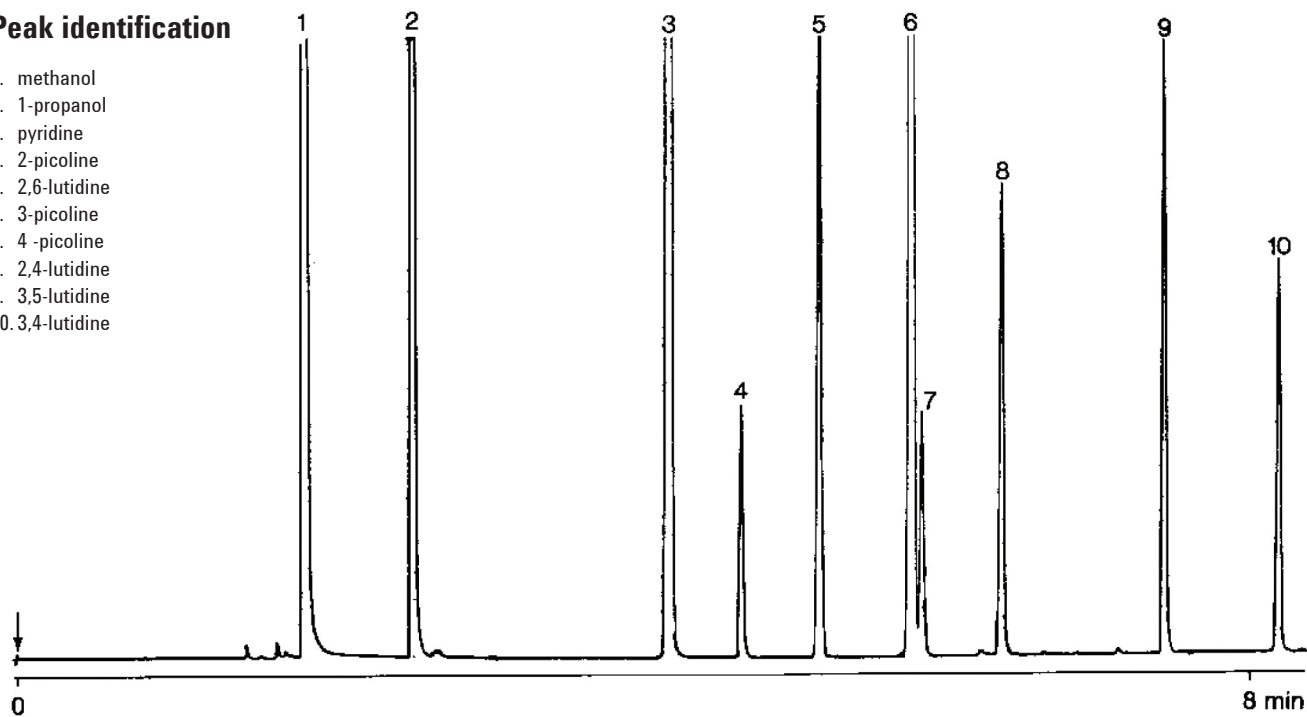
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Conditions

Technique : GC-capillary
Column : Agilent CP-Wax 51, 0.22 mm x 25 m fused silica
WCOT CP-Wax 51 for amines (0.2 μ m) (Part no. CP7405)
Temperature : 70 °C (4 min) \rightarrow 240 °C, 10 °C/min
Carrier Gas : N₂, 70 kPa (0.7 bar, 10 psi), 28 cm/s
Injector : Splitter, 30 mL/min
T = 250 °C
Detector : FID, 4 x 10⁻¹² Afs
T = 250 °C
Sample Size : 0.1 μ L

Peak identification

1. methanol
2. 1-propanol
3. pyridine
4. 2-picoline
5. 2,6-lutidine
6. 3-picoline
7. 4-picoline
8. 2,4-lutidine
9. 3,5-lutidine
10. 3,4-lutidine



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