

Amines

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

For the analysis of traces of basic compounds in an amine matrix a selective stationary phase is required. Agilent CP-Sil 8 CB for Amines is a non-polar base deactivated bonded phase which is applicable for a wide variety of amine separations.



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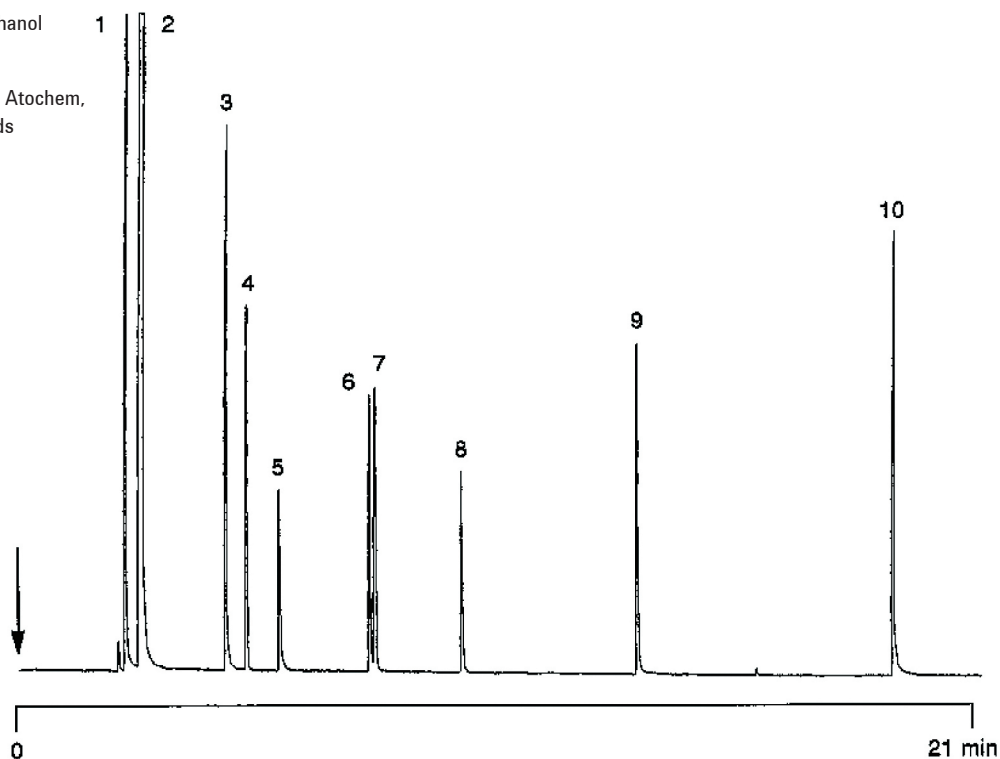
Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 8 CB for Amines, 0.25mm x 30 m
fused silica WCOT CP-Sil 8 CB for Amines
(df = 0.5 μ m) (Part no. CP7595)
Temperature : 50 °C \rightarrow 86 °C, 4 °C/min:
86 °C \rightarrow 246 °C, 10 °C/min
Carrier Gas : He, 62 kPa (0.82 bar, 11.8 psi)
Injector : Split,
T = 150 °C
Detector : TCD
T = 250 °C
Sample Size : 1 μ L
Concentration Range : ca. 0.2 % in ethanol

Courtesy : J. Verboon, Elf Atochem,
the Netherlands

Peak identification

1. water
2. ethanol
3. ethylenediamine (diaminoethane)
4. triethylamine
5. methylethylenediamine
6. ethylethylenediamine
7. morpholine
8. piperazine
9. diethylenetriamine
10. triethylenetetramine



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