Herbicides

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography using an Agilent CP-Sil 24 CB column separates ten phenoxy herbicides in 34 minutes.

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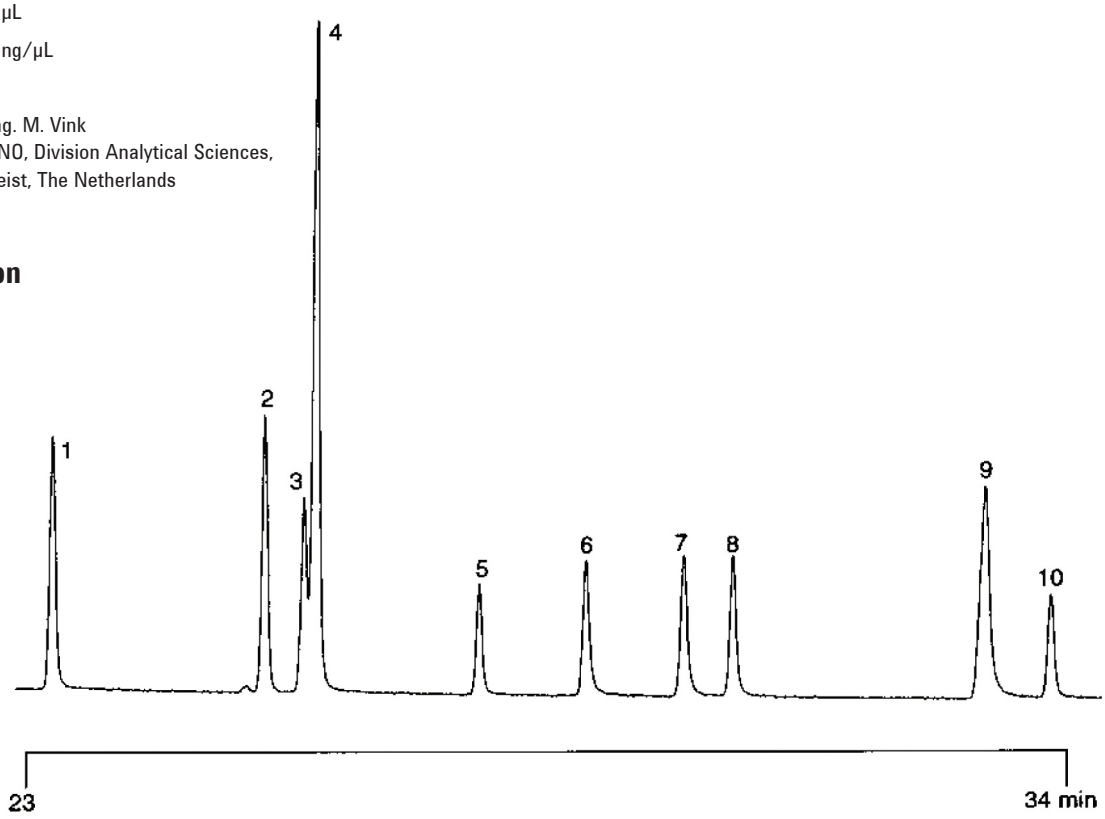
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Sil 24 CB, 0.32 mm x 30 m fused silica WCOT CP-Sil 24 CB (df = 0.25 µm) (Part no. CP7831)
Temperature	:	60 °C (1 min) ⟶ 150 °C, 15 °C/min; 150 °C (0 min) ⟶ 270 °C, (30 min)
Carrier Gas	:	He, 60 kPa (0.6 bar, 8.6 psi)
Injector	:	Splitless T = 220 °C
Detector	:	NPD T = 300 °C
Sample Size	:	1 µL
Concentration Range	:	2 ng/µL
Courtesy	:	Ing. M. Vink TNO, Division Analytical Sciences, Zeist, The Netherlands

Peak identification

1. MCPP
2. dicamba
3. MCPA
4. dichlorprop (2,4-DP)
5. dikegulac
6. 2,4-D
7. 2,4,5-TP
8. 2,4,5-T
9. MCPB
10. bentazon



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