



Herbicides

Analysis of triazine herbicides

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Sil 5 CB-MS column separates 12 triazine herbicides in 16 minutes.



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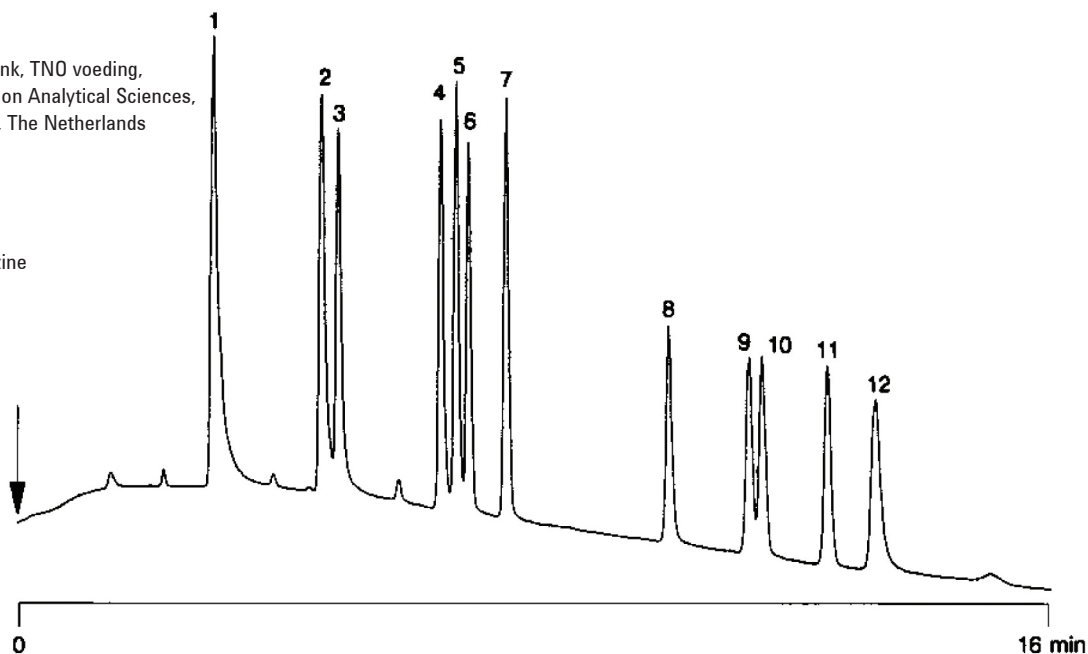
Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB-MS, 0.32 mm x 25 m fused silica
WCOT CP-Sil 5 CB-MS (df = 0.40 µm)
(Part no. CP7850)
Temperature : 60 °C (1 min) → 180 °C, 15 °C/min;
180 °C (1 min) → 215 °C, 2 °C/min;
215 °C (2 min)
Carrier Gas : He, 70 kPa (0.7 bar, 9.8 psi)
Injector : Splitter, 60 s
T = 250 °C
Detector : MSD full scan 35-400 M/Z; scantime 0.5 s
T = 200 °C
Sample Size : 1 µL
Concentration Range : 1 - 5 µg/mL
Solvent Sample : ethyl acetate

Courtesy : M. Vink, TNO voeding,
Division Analytical Sciences,
Zeist, The Netherlands

Peak identification

1. desethyl desisopropylatrazine
2. desisopropylatrazine
3. desethylatrazine
4. simazine
5. atrazine
6. propazine
7. terbutylazine
8. desmetryn
9. ametryn
10. prometryn
11. terbutryn
12. cyanazine



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This information is subject to change without notice.

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