



Pesticides

Separation of four hexachlorocyclohexane isomers on a fused silica capillary column

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates four hexachlorocyclohexane isomers in ten minutes.



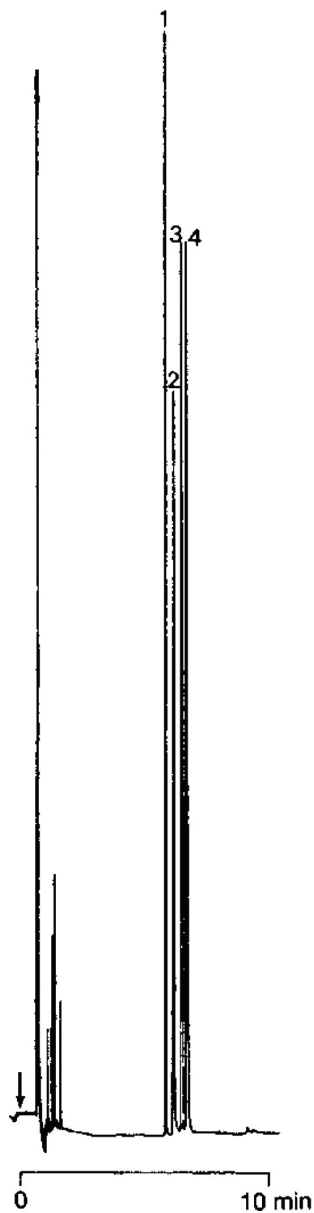
Agilent Technologies

Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 5 CB, 0.32 mm x 25 m fused silica
WCOT CP-Sil 5 CB (0.12 μ m) (Part no. CP7740)
Temperature : 80 °C \rightarrow 150 °C,
27 °C/min + 7 °C/min \rightarrow 220 °C
Carrier Gas : H₂, 3 mL/min 60 cm/s
Injector : on-column
T = 250 °C
Detector : ECD, 1024 x 10⁻¹² Afs
make-up: Ar/CH₄: 20 mL/min
T = 250 °C
Sample Size : 1 μ L
Concentration range : 0.04 - 0.1 ppm/component

Peak identification

1. α -HCH	0.046 ppm
2. β -HCH	0.115 ppm
3. γ -HCH	0.044 ppm
4. σ -HCH	0.060 ppm



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

A00070



Agilent Technologies