



# Volatile halogenated hydrocarbons $C_3 - C_6$

Separation of volatile halogenated hydrocarbons on a fused silica capillary column

## Application Note

Environmental

### Authors

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### Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates 24  $C_3$  to  $C_6$  volatile halogenated hydrocarbons in 35 minutes.



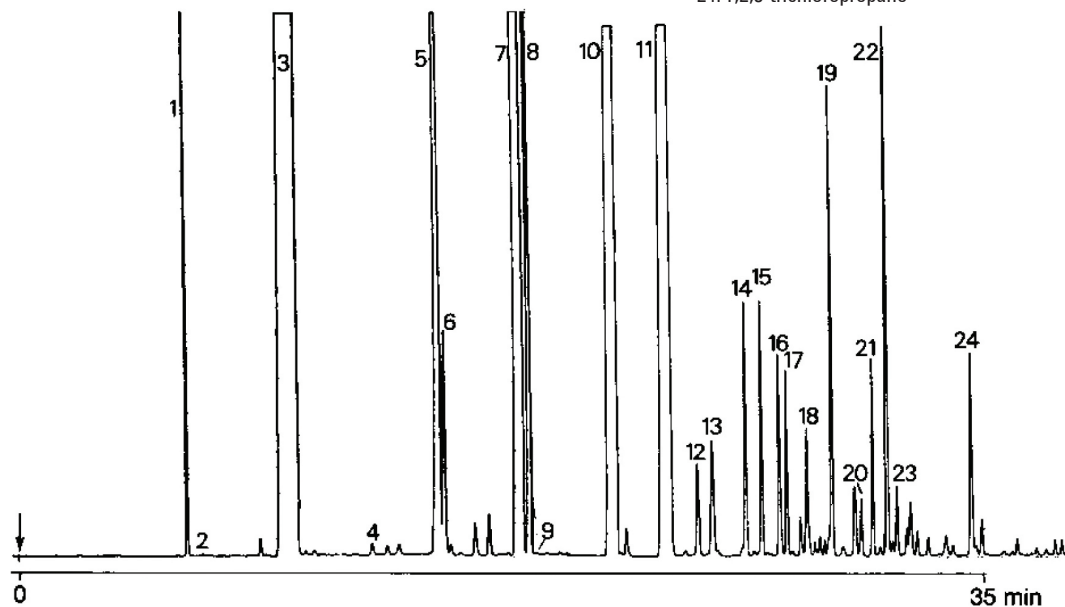
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## Conditions

Technique : GC-capillary  
Column : Agilent CP-Sil 5 CB, 0.32 mm x 50 m fused silica  
WCOT CP-Sil 5 CB (1.2 µm) (Part no. CP7770)  
Temperature : 40 °C (15 min) → 70 °C, 6 min;  
10 °C/min → 110 °C  
Carrier Gas : H<sub>2</sub>, 55 kPa (0.55 bar, 8 psi), 30 cm/s  
Injector : Splitter, 25 mL/min  
T = 250 °C  
Detector : Fld, 4 x 10<sup>-12</sup> Afs  
T = 250 °C  
Sample Size : 0.5 µL

## Peak identification

1. allylchloride
2. n-propylchloride
3. 2-butanol
4. 1,2-dichloroethane
5. 3,3-dichloropropene
6. benzene
7. 1,2-dichloropropane
8. 2,3-dichloro-1-propene
9. epichlorohydrin
10. cis-1,3-dichloropropene
11. trans-1,3-dichloropropene
12. chlorocyclohexene
13. 1,3-dichloropropane
14. 2-methyl-3-chloro-2-pentene
15. chlorohexene
16. 1,2,2-trichloropropane
17. chlorohexene + chlorocyclohexene
18. 3-chloro-1,5-hexadiene
19. 1,1,2-trichloropropene
20. chlorobenzene + chlorohexadiene
21. 1-chloro-2,4-hexadiene
22. 1,2,3-trichloropropene
23. chlorohexadiene
24. 1,2,3-trichloropropane



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