Halogenated hydrocarbons, C_5 – C_{10}

Analysis of halogenated hydrocarbons to EPA 8120

Application Note

Environmental

Authors

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Introduction

Gas chromatography with an Agilent CP-Sil 8 CB column separates 18 C_5 to C_{10} halogenated hydrocarbons according to EPA 8120 in 90 minutes.

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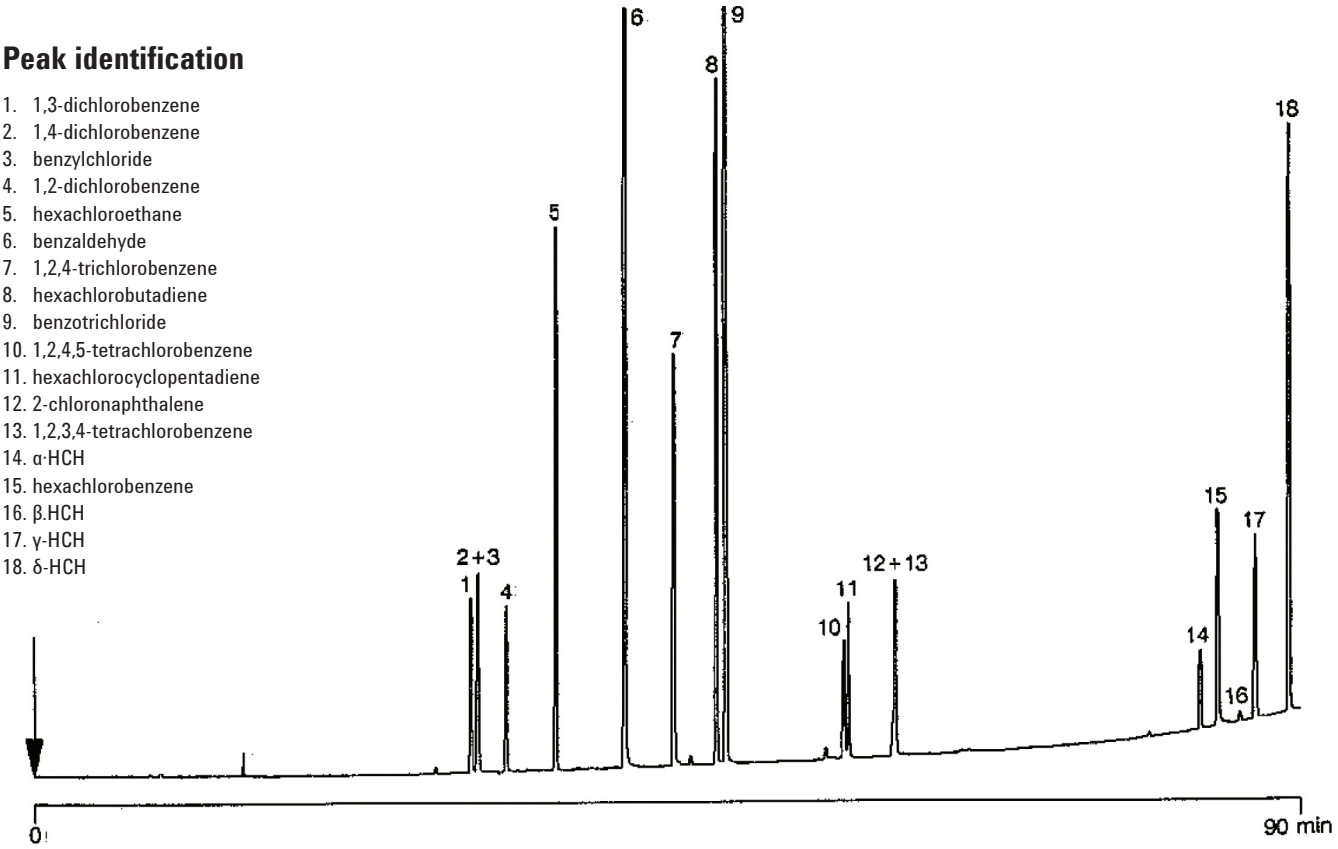
Conditions

Technique	: GC-capillary
Column	: Agilent CP-Sil 8 CB for pesticides, 0.32 mm x 50 m fused silica WCOT CP-Sil 8 CB (df = 1.2 µm) with retention gap (Part no. CP7771)
Temperature	: 50 °C (2 min) ⟶ 325 °C, 3 °C/min
Carrier Gas	: He, 90 kPa (0.9 bar, 13 psi)
Injector	: Split, 100 mL/min T = 265 °C
Detector	: ECD T = 300 °C

Peak identification

1. 1,3-dichlorobenzene
2. 1,4-dichlorobenzene
3. benzylchloride
4. 1,2-dichlorobenzene
5. hexachloroethane
6. benzaldehyde
7. 1,2,4-trichlorobenzene
8. hexachlorobutadiene
9. benzotrichloride
10. 1,2,4,5-tetrachlorobenzene
11. hexachlorocyclopentadiene
12. 2-chloronaphthalene
13. 1,2,3,4-tetrachlorobenzene
14. α·HCH
15. hexachlorobenzene
16. β.HCH
17. γ-HCH
18. δ-HCH



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