



Halogenated and oxygenated hydrocarbons

Analysis of hydrocarbons $C_1-C_{3'}$,
halogenated hydrocarbons C_1-C_2 and
oxygenated compounds C_2-C_3

Application Note

Environmental

Authors

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Introduction

Gas chromatography with an Agilent PoraPLOT U column separates 12 halogenated and oxygenated hydrocarbons in 15 minutes.



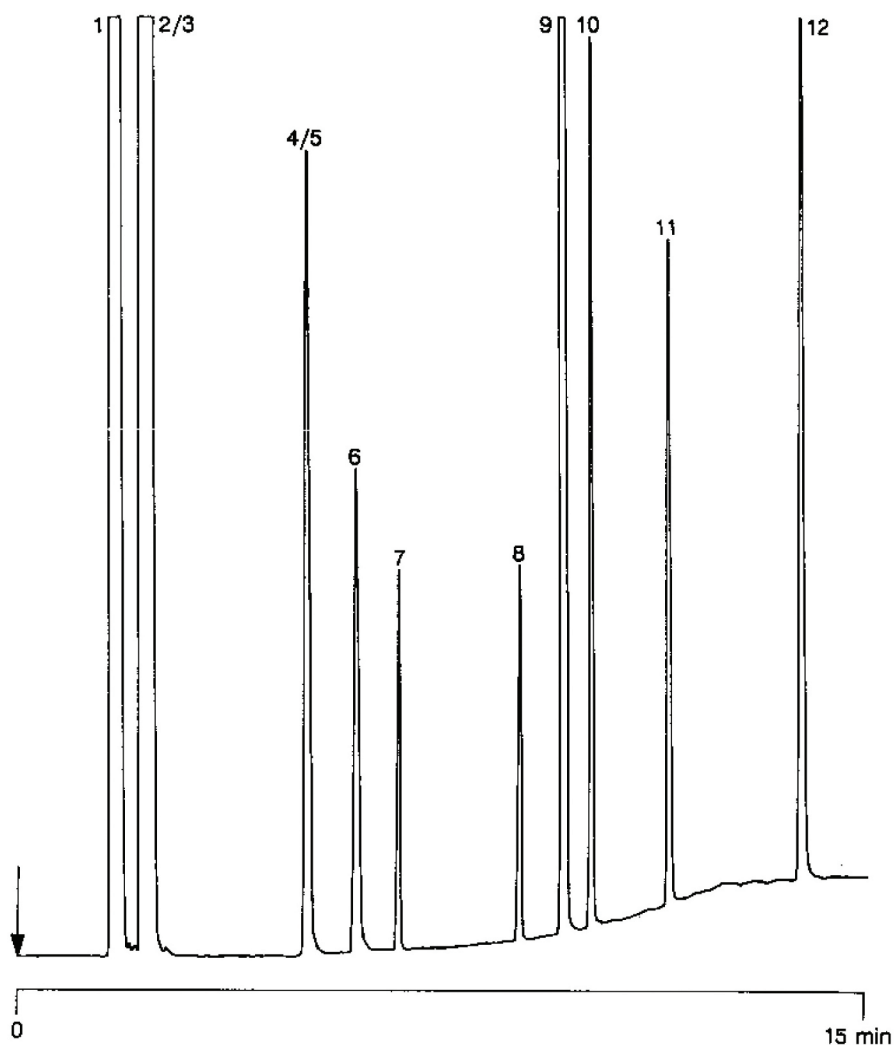
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Conditions

Technique : GC-capillary
Column : Agilent PoraPLOT U, 0.32 mm x 25 m fused silica
PLOT PoraPLOT U (df = 10 µm) (Part no. CP7581)
Temperature : 70 °C (2 min) → 140 °C, 8 °C/min
Carrier Gas : He, 100 kPa (1 bar, 14 psi)
Injector : Splitter, 20 mL/min
T = 120 °C
Detector : FID, 2^l
T = 175 °C
Concentration range : peak 6-12: ± 500 ppm
Sample Size : 0.2 µL

Peak identification

1. methane
2. ethylene
3. acetylene
4. propane
5. propylene
6. cyclopropane
7. chloromethane
8. vinyl chloride
9. ethylene oxide
10. acetaldehyde
11. chloroethane
12. propylene oxide



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