Volatile organic compounds in air

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-SilicaPLOT column separates 23 volatile organic compounds in air in 60 minutes.

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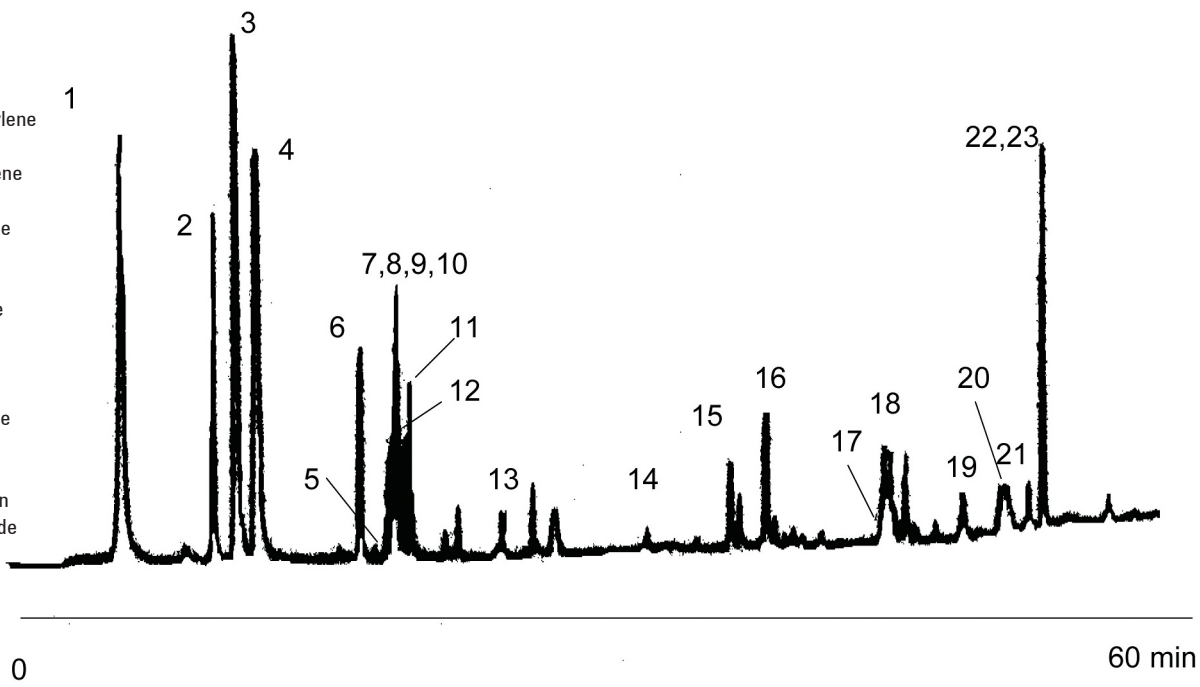
Conditions

Technique	:	GC
Column	:	Agilent CP-SilicaPLOT, 0.32 mm x 30 m fused silica (df = 4 µm) (Part no. CP8567)
Temperature	:	30 °C, 3.5 min, 4 °C/min → 200 °C, 10 min
Carrier Gas	:	Helium, 3.5 mL/min
Injector	:	Thermo desorption
Detector	:	FID
Concentration Range	:	ppb range
Courtesy	:	W. Engewald, K. Dettmar and Th. Bittner, University Leipzig, Germany

Peak identification

1. propane
2. propylene
3. isobutane
4. butane
5. methylacetylene
6. 1-butene
7. trans-2-butene
8. isopentane
9. cyclopentane
10. isobutene
11. n-pentane
12. cis-2-butene
13. 1-pentene
14. 1-hexene
15. benzene
16. acetaldehyde
17. acrolein
18. acetonitrile
19. methacrolein
20. butyraldehyde
21. m/p-xylene
22. acetone
23. o-xylene



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