



Base neutrals

Base neutrals to EPA 8270

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Using GC/MS, an Agilent FactorFour VF-200ms column separates 13 base neutrals according to EPA8270 in 20 minutes.



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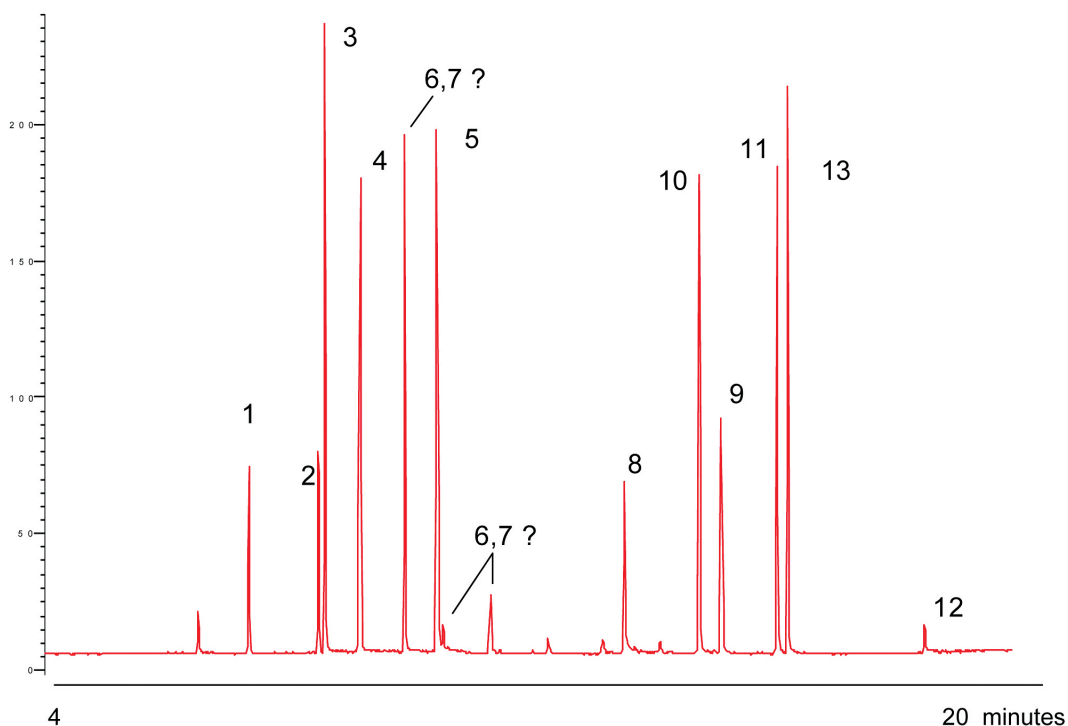
Conditions

Technique : GC
Column : Agilent FactorFour VF-200ms, 0.25 mm x 30 m
(df = 1.0 μ m) (Part no. CP8858)
Temperature : 45 °C, 3 min + 10 °C/min \rightarrow 325 °C
Carrier Gas : Helium, ca. 1.0 mL/min
Pressure program : 60 kPa
Injector : Split/Splitless, in split mode, 1:100
Detector : MS
Sample Size : 1 μ L
Solvent : methylene chloride, 2000 μ g/mL

Courtesy : Jan Peene, Agilent Application Laboratory,
Middelburg, The Netherlands

Peak identification

1. methylmethane sulfonate
2. ethylmethane sulfonate
3. acetophenone
4. nitrobenzene
5. isophorone
6. safrole
7. isosafrole
8. 1,4-naphthoquinone
9. m-dinitrobenzene
10. 2,6-dinitrotoluene
11. 2,4-dinitrotoluene
12. 1,3,5-trinitrobenzene
13. pentachloronitrobenzene



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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A02090



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