Nitroaromatics and cyclic ketones

Analysis of nitro aromatics and cyclic ketones to EPA 8090

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

GC/MS analysis of eight nitroaromatics and cyclic ketones according to EPA 8090, with an Agilent FactorFour VF-200ms column, is achieved in less than 20 minutes.

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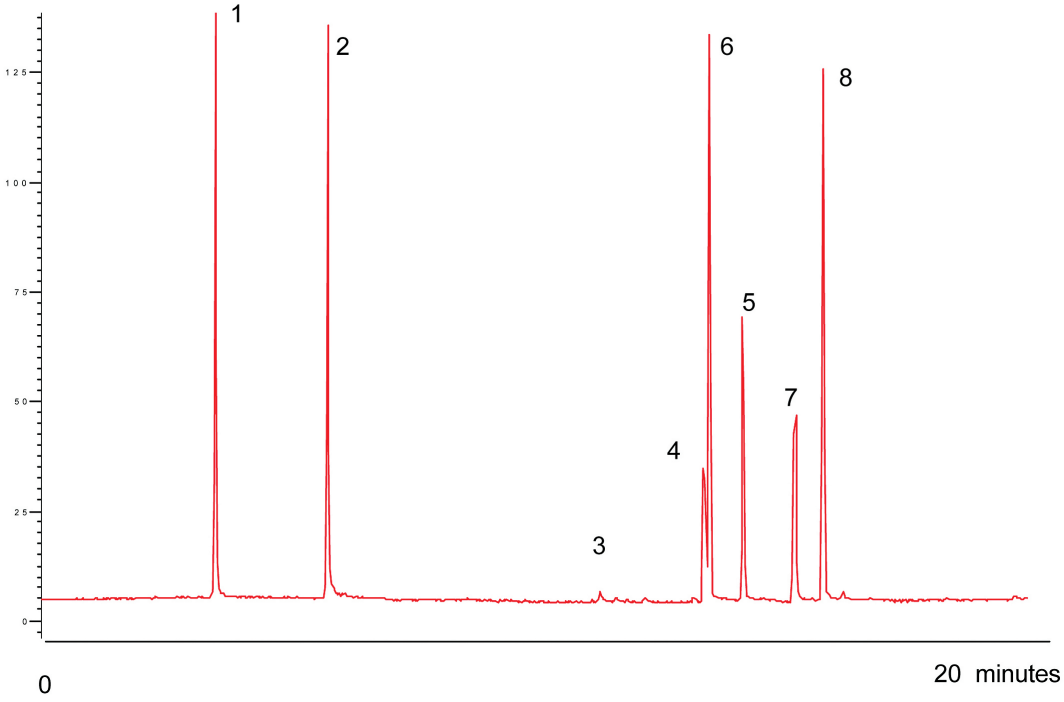
Conditions

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

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

Peak identification

1. nitrobenzene
2. isophorone
3. 1,4-napthoquinone
4. 1,4-dinitrobenzene
5. 1,3-dinitrobenzene
6. 2,6-dinitrotoluene
7. 1,2-dinitrobenzene
8. 2,4-dinitrotoluene



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