



Nitriles

Analysis of C₂-C₄ nitriles and unsaturated hydrocarbons

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

The Agilent CP-SilicaPLOT column shows an excellent inertness (peak shape) for C₂ to C₄ nitriles, as well as for unsaturates.



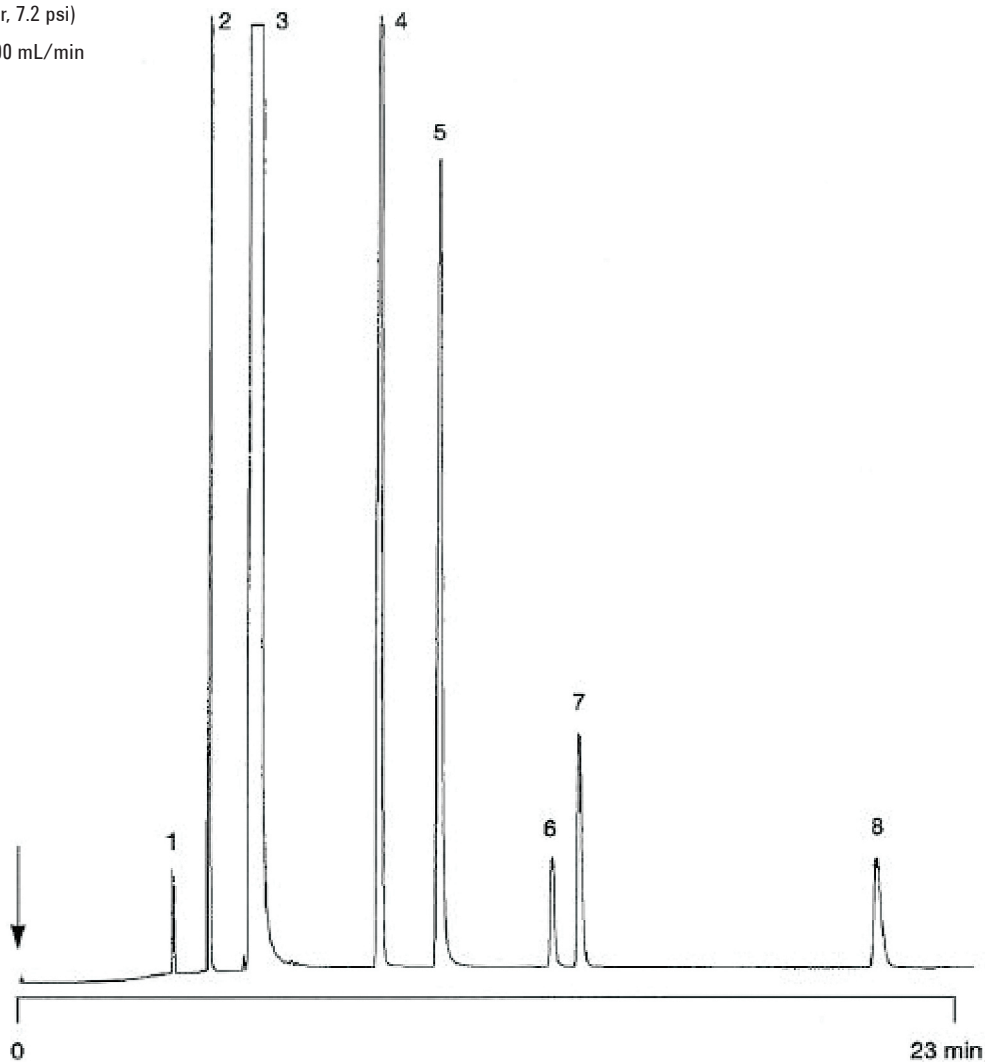
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Conditions

Technique : GC-capillary
Column : Agilent CP-SilicaPLOT, 0.32 mm x 30 m, fused silica
PLOT CP-SilicaPLOT (df = 4 µm) (Part no. CP8567)
Temperature : 150 °C → 225 °C, 25 °C/min, 225 °C hold
Carrier Gas : N₂, 50 kPa (0.5 bar, 7.2 psi)
Injector : Split, split flow 100 mL/min
T = 250 °C
Detector : FID
T = 250 °C
Sample Size : 1.0 µL
Concentration Range : ppm level
Solvent Sample : heptane

Peak identification

- 1,3-butadiene
- isoprene
- heptane (sample solvent)
- acrylonitrile
- vinylcyclohexane
- styrene
- propionitrile
- butyronitrile



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This information is subject to change without notice.

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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A01384



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