



# Volatile sulfur compounds

## Application Note

Environmental

### Authors

Agilent Technologies, Inc.

### Introduction

GC/MS with an Agilent CP-Volamine column separates volatile sulfur compounds in eight minutes.



**Agilent Technologies**

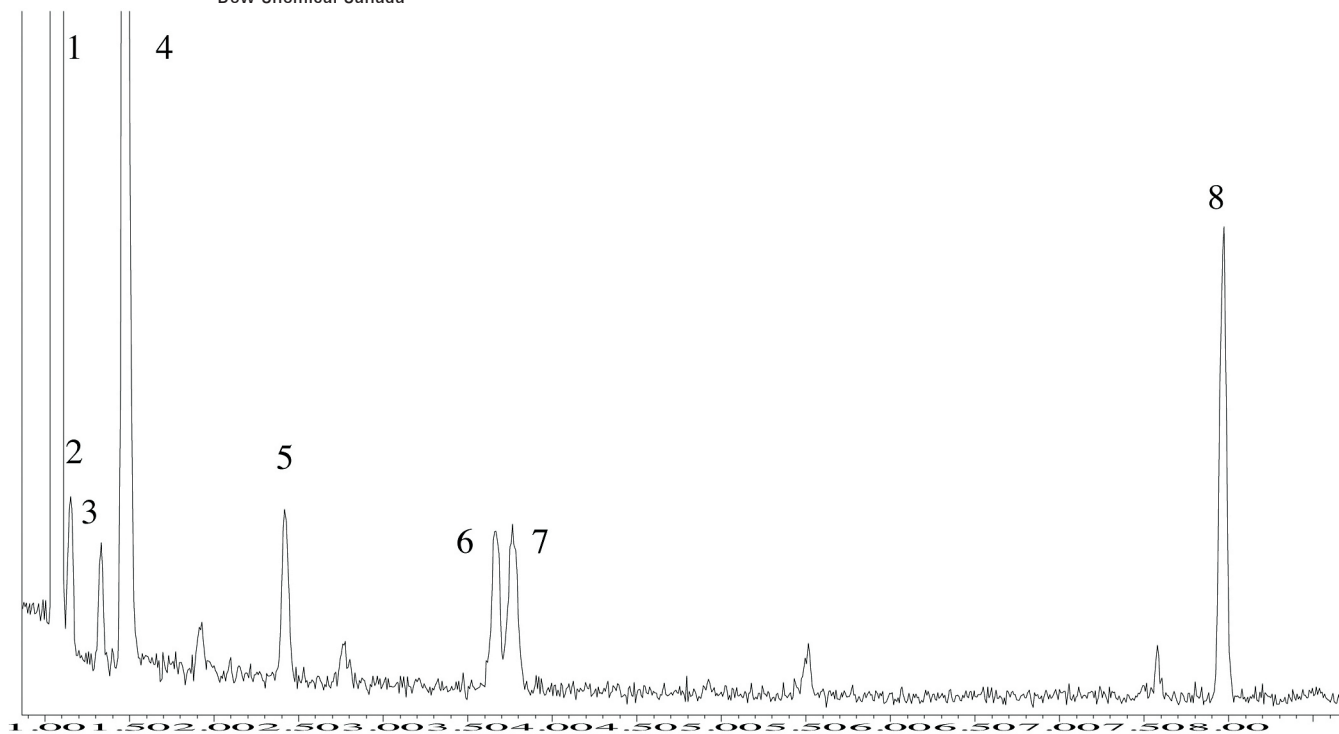
## Conditions

Technique : GC-capillary  
Column : Agilent CP-Volamine, 0.32 mm x 30 m fused silica (optimized filmthickness) Part no. CP7447  
Temperature : 40 °C (2 min) → 250 °C, 10 °C/min  
Carrier Gas : Helium, 3 Psi  
Injector : Split  
Detector : MS  
Sample Size : 0.5 µL  
Concentration Range : approx. 5 ng per component on the column

## Peak identification

1. air
2. CO<sub>2</sub>
3. H<sub>2</sub>S
4. water
5. methyl mercaptan
6. ethyl mercaptan
7. pentane
8. toluene

Courtesy : Jim Luong and Paige Spencer,  
Dow Chemical Canada



0

8 min

[www.agilent.com/chem](http://www.agilent.com/chem)

This information is subject to change without notice.

© Agilent Technologies, Inc. 2011

Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A01865



**Agilent Technologies**