

## **Sulfur gases**

# Analysis of sulfur compounds in natural gas

### **Application Note**

**Energy & Fuels** 

#### **Authors**

Agilent Technologies, Inc.

#### Introduction

The separation of COS of any propane occurring in natural gas is critical to the correct determination of COS. Propane can quench the PFPD causing a loss of COS signal. By starting at -20 °C, the quenching is avoided using the thickfilm Agilent CP-Sil 5 CB column.



#### **Conditions**

Technique : GC-capillary

Column : Agilent CP-Sil 5 CB, 0.32 mm x 50 m fused silica

WCOT (df =  $5.0 \mu m$ ) (Part no. CP7690)

Temperature : -20 °C (2 min)  $\rightarrow$  200 °C, 100 °C/min

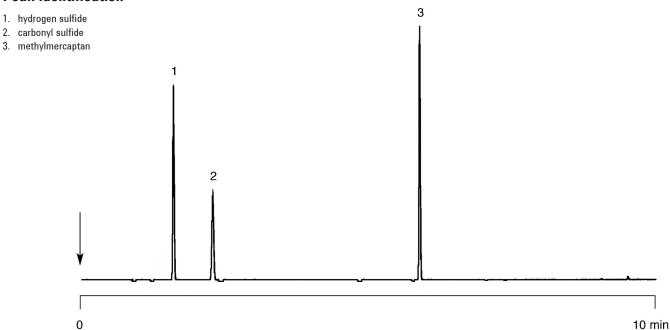
Carrier Gas : He, 60 kPa (0.6 bar, 8 psi)
Injector : Gas sampling valve

Detector : PFPD

T = 250 °C

Concentration Range : 1 ppm sulfur in natural gas

#### **Peak identification**



#### 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

A01625

