



## Formic acid esters $C_1 - C_4$

### Separation of formates on a wide-bore fused silica column

#### Application Note

Materials Testing & Research

#### Authors

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#### Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates four  $C_1$  to  $C_4$  formates in two minutes.



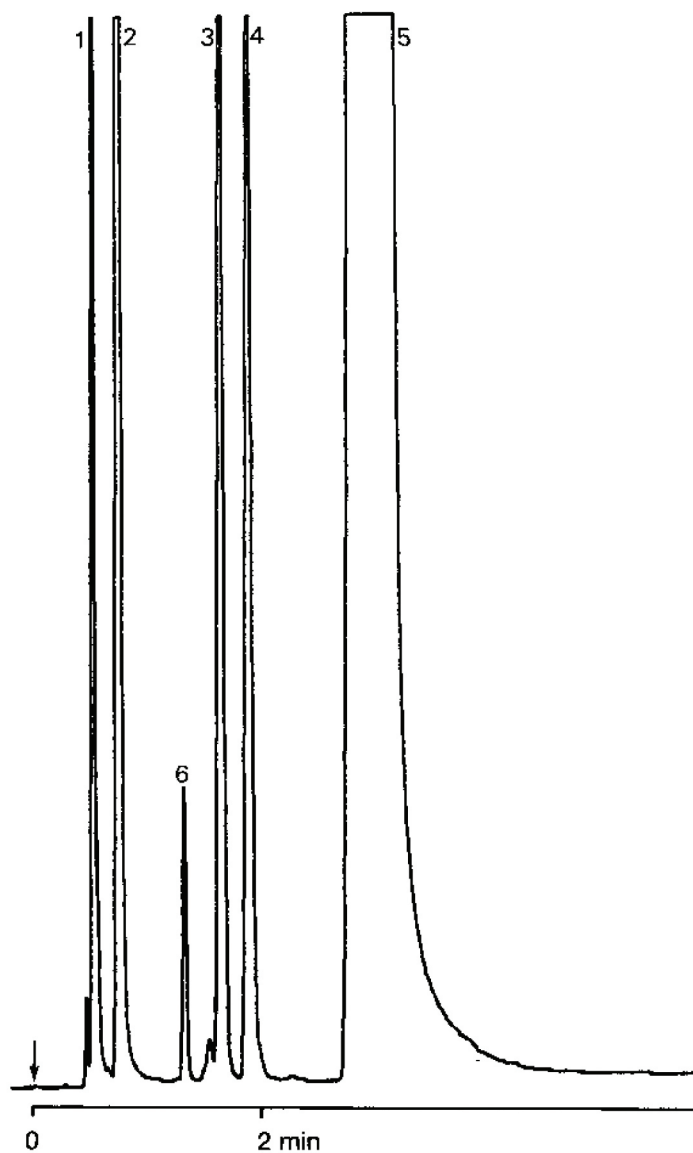
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## Conditions

Technique : GC-capillary  
Column : Agilent CP-Sil 5 CB, 0.53 mm x 10 m fused silica  
WCOT CP-Sil 5 CB (5.0  $\mu\text{m}$ ) (Part no. CP7645)  
Temperature : 50  $^{\circ}\text{C}$   $\rightarrow$  200  $^{\circ}\text{C}$ , 10  $^{\circ}\text{C}/\text{min}$   
Carrier Gas :  $\text{N}_2$ , 10 kPa (0.1 bar), 52 cm/s  
Injector : direct  
T = 250  $^{\circ}\text{C}$   
Detector : FID,  $100 \times 10^{-12}$  Afs  
T = 275  $^{\circ}\text{C}$   
Sample Size : 0.2  $\mu\text{L}$   
Concentration Range : tetrachloroethene (perchloroethylene)

## Peak identification

1. methylformate
2. ethylformate
3. isobutylformate
4. butylformate
5. tetrachloroethene
6. isobutanol



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