



Oxygenated compounds in glycol

Analysis of impurities in glycol

Application Note

Materials Testing & Research

Authors

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Introduction

Impurities in monoethylene glycol are detected by GC/MS with an Agilent CP-Volamine column in six minutes.



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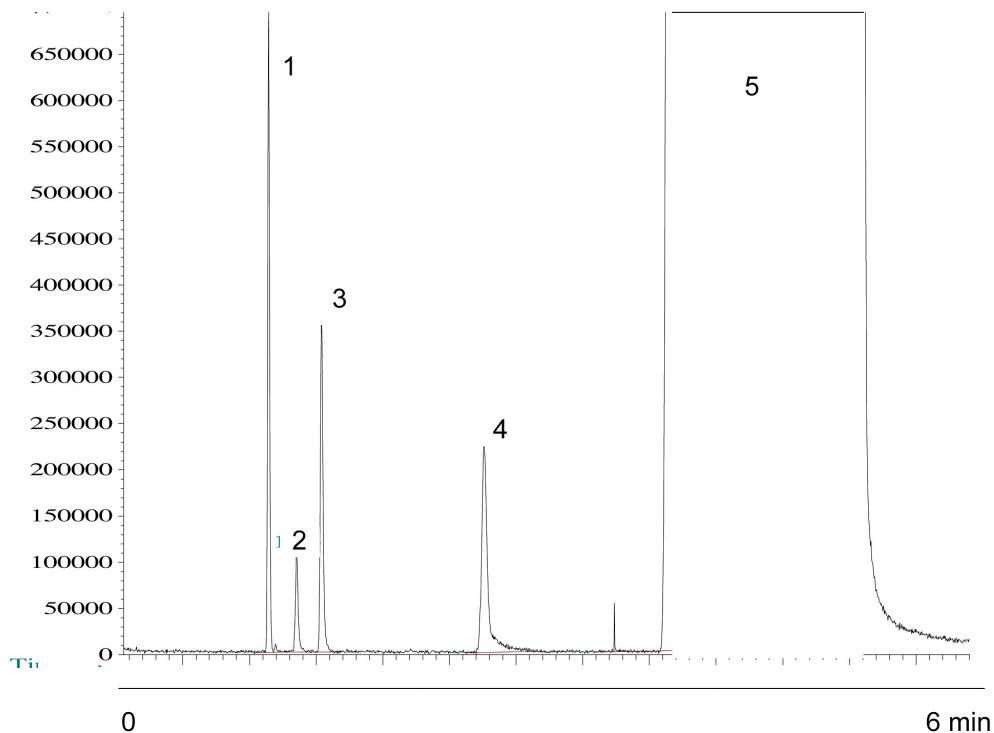
Conditions

Technique : GC
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, 35 cm/s
Injector : Split,
Detector : MS
Sample Size : 0.5 µL
Concentration Range : 10 ppm level
Matrix : MEG, Sythetic standard, spiked with approx. 10 ppm
oxygenated compounds

Courtesy : Jim Luong and Paige Spencer,
Dow Chemical Canada

Peak identification

1. air
2. acetaldehyde
3. water
4. glycolaldehyde
5. monoethylene glycol (MEG)



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This information is subject to change without notice.

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