Volatile polar compounds

Separation of glycolaldehyde in MEG

Application Note

Materials Testing & Research

Authors

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Introduction

GC/MS separation of glycolaldehyde in monoethylene glycol using an Agilent CP-Volamine column takes seven minutes.

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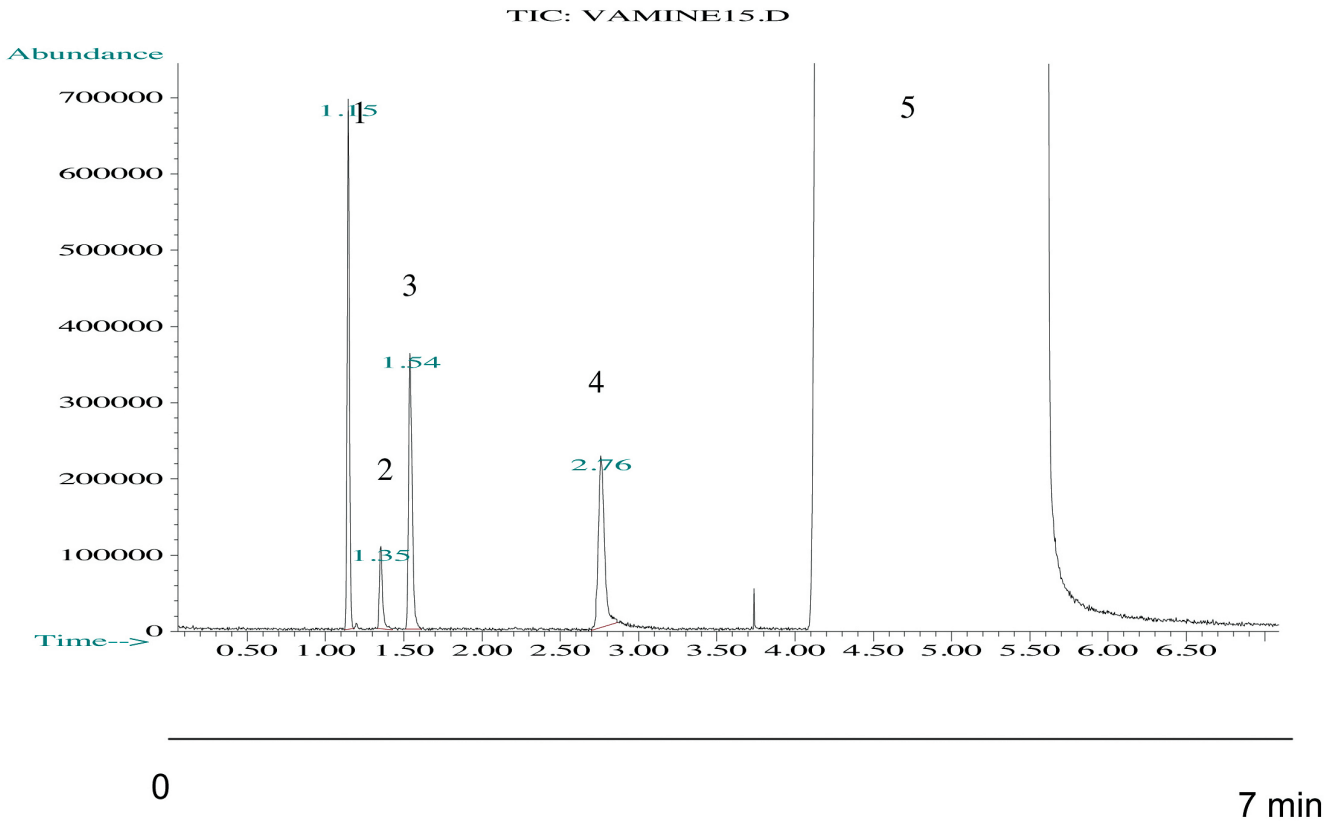
Conditions

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
Courtesy	:	Jim Luong, Dow Chemical Canada

Peak identification

1. air
2. water
3. methanol
4. glycol aldehyde
5. monoethylene glycol (MEG)



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Printed in the USA
31 October, 2011
First published prior to 11 May, 2010
A01859

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