



C₁ – C₃ amines

Analysis of impurities in trimethylamine

Application Note

Materials Testing & Research

Authors

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Introduction

Gas chromatography with an Agilent CP-Volamine column separates impurities in trimethylamine in 18 minutes.



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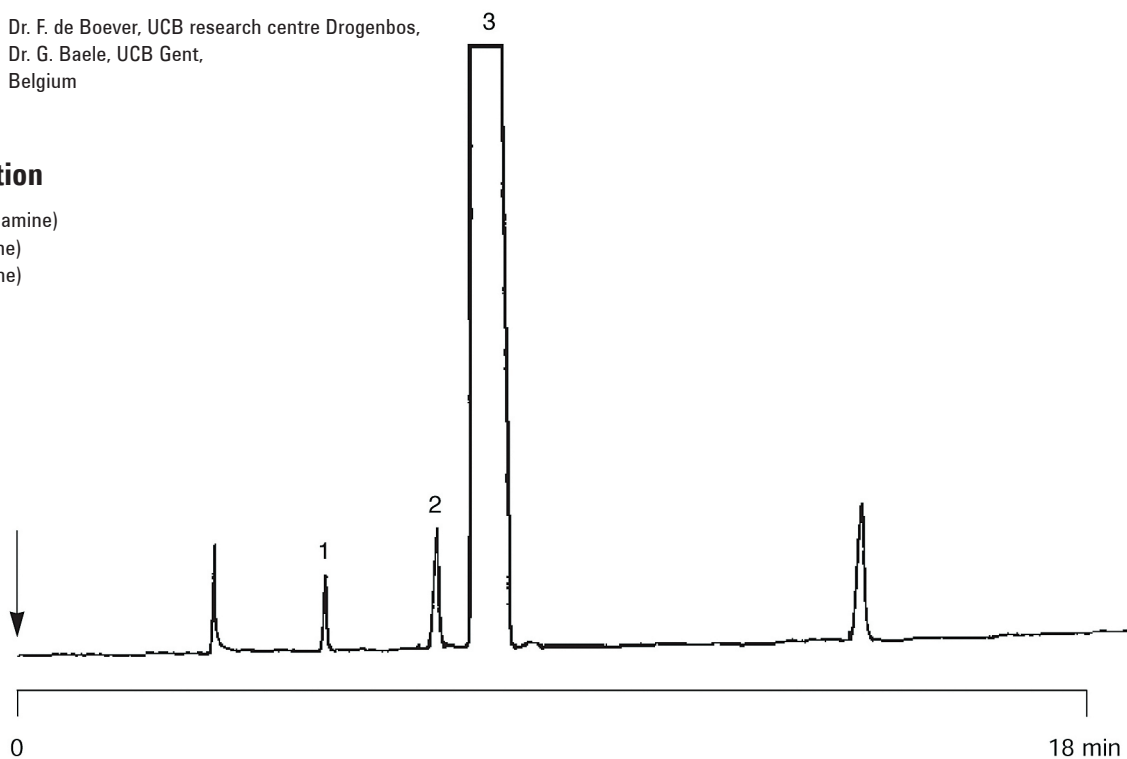
Conditions

Technique : GC-capillary
Column : Agilent CP-Volamine, 0.32 mm x 60 m fused silica
WCOT (Part no. CP7448)
Temperature : 40 °C (10 min) → 250 °C, 20 °C/min
Carrier Gas : He, 100 kPa (1 bar, 14 psi)
Injector : Split. 1:50,
T = 180 °C
Detector : FID,
T = 250 °C
Sample Size : 1.0 µL, liquid
Concentration Range : Bulk TMA

Courtesy : Dr. F. de Boever, UCB research centre Drogenbos,
Dr. G. Baele, UCB Gent,
Belgium

Peak identification

1. MMA (mono-methylamine)
2. DMA (di-methylamine)
3. TMA (tri-methylamine)



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This information is subject to change without notice.

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