

# Amines and alcohols

## Fast analysis of amines and solvents

### Application Note

Environmental

#### Authors

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#### Introduction

MMEA and MDEA are components used in industry to remove sulfur compounds from hydrocarbons. Agilent CP-Volamine, a short thick-film coated non-polar column, provides the best chromatography for these highly polar compounds.



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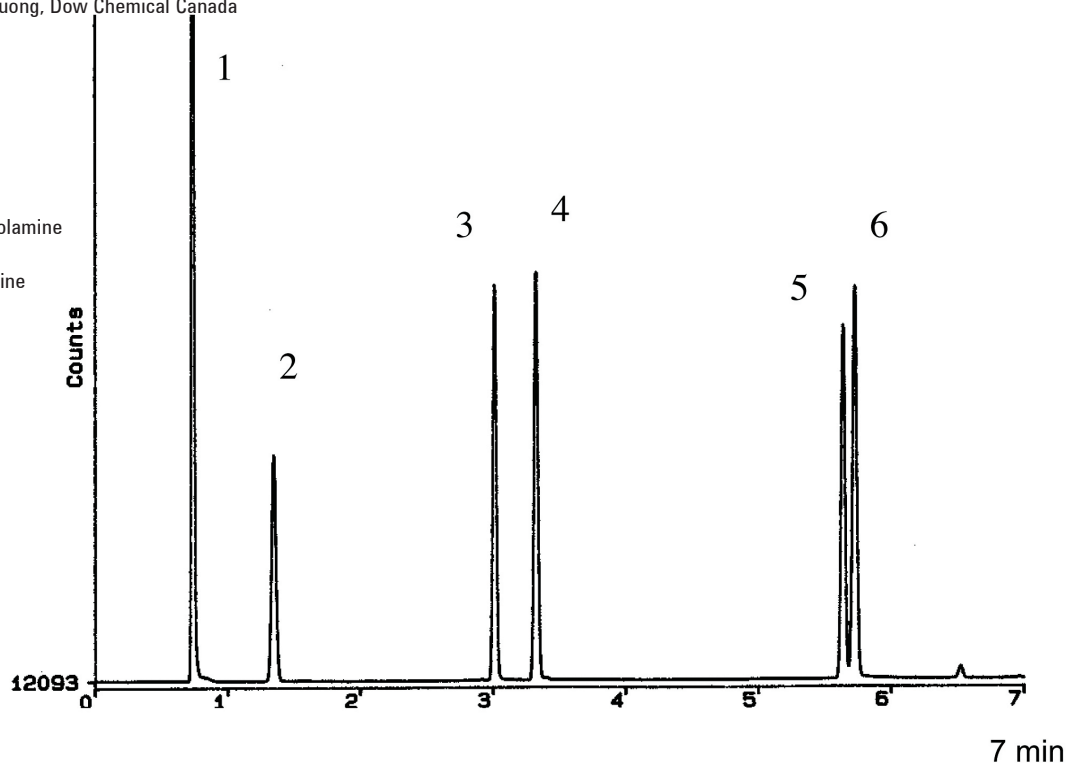
## Conditions

Technique : GC  
Column : Agilent CP-Volamine, 0.32 mm x 15 m fused silica  
(optimized filmthickness) (Part no. CP7446)  
Restriction at inlet, 0.10 mm x 20 cm methyl  
deactivated  
Temperature : 35 °C (0.5 min) → 240 °C, 30 °C/min  
Carrier Gas : Helium, 50 kPa, 55 cm/s  
Injector : Split  
Detector : MS  
Sample Size : 0.5 µL  
Concentration Range : 1000 ppm; approx. 5 ng per component on the  
column  
Solvent : ethanol

Courtesy : Jim Luong, Dow Chemical Canada

## Peak identification

1. methanol
2. IPA
3. mono ethylene glycol
4. MMEA methyl monoethanolamine
5. diethanolamine
6. MDEA methyl diethanolamine



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This information is subject to change without notice.

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