



C₁ – C₅ hydrocarbons

Application Note

Energy & Fuels

Authors

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Introduction

GC analysis of seven impurities in a hydrocarbon stream is accomplished in less than 12 minutes using the Agilent Select Al₂O₃ MAPD column. The Agilent Select Al₂O₃ MAPD is extensively deactivated which results in highest response for traces of polar hydrocarbons including acetylenes and dienes.



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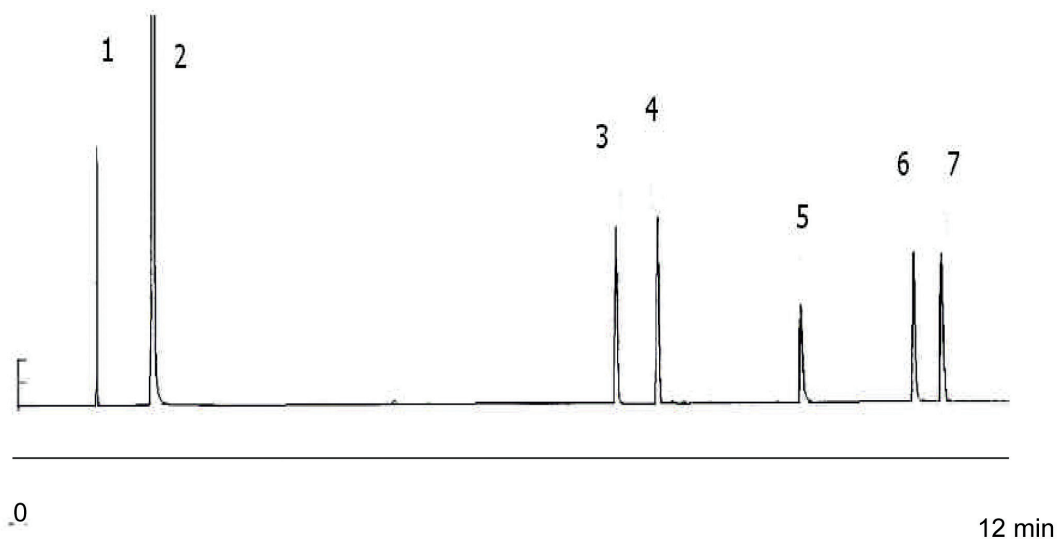
Conditions

Technique : GC
Column : Agilent Select Al₂O₃ MAPD, 0.53 mm x 30 m fused silica, Part no. CP7432
Temperature : 40 °C, 5min → 160 °C, 10 °C/min → 200 °C, 20 °C/min, hold 1 min
Carrier Gas : He, 4 psig, 4 min → 11 psig, 0.5 psig/min, 2 min
Injector : Split 60 mL/min
Detector : FID
Concentration Range : approx. 100 ppm in nitrogen, synthetic standard

Courtesy : J. Luong, Dow Chemical Canada

Peak identification

1. ethane
2. propane
3. trans-2-butene
4. iso-pentane
5. methyl acetylene
6. vinyl acetylene
7. ethyl acetylene



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This information is subject to change without notice.

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