

C_2 hydrocarbons

Analysis of light hydrocarbons

Application Note

Energy & Fuels

Authors

Agilent Technologies, Inc.

Introduction

Agilent PoraBOND U porous polymer is a bonded porous polymer manufactured in-house. This results in a very stable and inert column that can be operated at high column flow rates and valve switching. PoraBOND U separates $\rm C_2$ isomers to baseline. The highly pure PoraBOND U porous polymer has a stability up to 300 °C with very low bleed . Moisture has no influence on retention, which means that this column can be used isothermally at temperatures below 100 °C for analyzing samples that contain water.



Conditions

Technique : GC-capillary

Column : Agilent PoraBOND U, 0.32 mm x 25 m fused silica

PLOT (df = 7 μ m) (Part no. CP7381)

Temperature : 30 °C

Carrier Gas : He, 50 kPa (0.5 bar, 7 psi)

Injector : Split,

T = 250 °C

Detector : PDD HeID mode D-4-1 (Valco),

T = 250 °C

Sample Size : $5 \mu L (gas)$ Concentration Range : % level

Courtesy : C. Duvekot, Agilent application laboratory,

Middelburg, The Netherlands

Peak identification

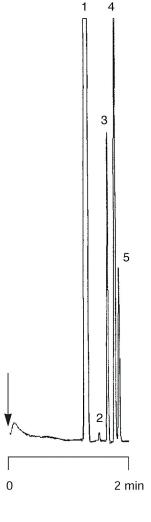
1. air

2. carbon dioxide

3. ethylene

4. ethane

5. acetylene



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This information is subject to change without notice.

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