

# **Oxygenated hydrocarbons, C<sub>3</sub>**Analysis of impurities in propylene

# **Application Note**

**Energy & Fuels** 

#### **Authors**

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#### Introduction

Agilent PoraBOND U is a high polarity porous polymer, with a selectivity comparable with PoraPLOT U. This PLOT column is one of the new generation of adsorption materials where the stationary phase is not built by particles, but by an in-situ process forming an integrated layer. This results in high mechanical stability allowing high flow rates and valve switching.

In addition, a remarkable increase in temperature stability is obtained. PoraBOND U PLOT columns can be used up to 300  $^{\circ}$ C.



## **Conditions**

Technique : GC-capillary

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

PLOT (df =  $7 \mu m$ ) (Part no. CP7381)

Temperature : 170 °C

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

Injector : Split,

T = 250 °C

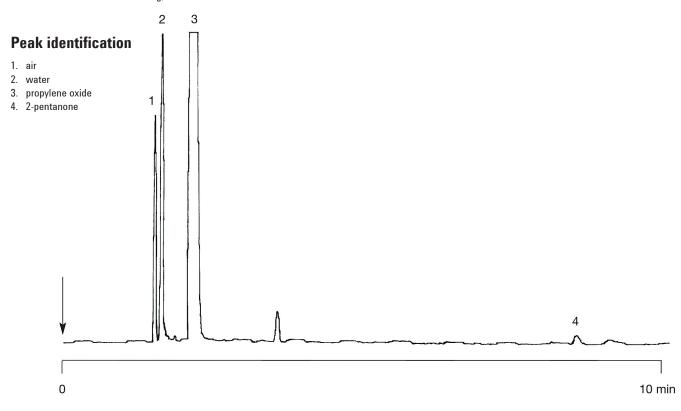
Detector : PDD in HID mode;

T = 250 °C

Concentration Range : 50 - 100 ppm in propylene oxyde

Courtesy : C. Duvekot, Agilent application laboratory,

Middelburg, The Netherlands



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This information is subject to change without notice.

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