

Mineral oil in soil

Fast analysis of C₁₀ - C₂₅ mineral oil in soil

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

The analysis of mineral oil can be done using highly efficient GC and the Agilent Select Mineral Oil column. This column was optimized for mineral oil analysis to generate shortest analysis time. For soil analysis an on-column method was developed allowing C₁₀ to C₄₀ to be determined in less than 5 minutes. The Select Mineral Oil stationary phase was tuned for separation and stabilized for high temperature operation. Upper temperature limit of this column is 400 °C.

The column can be used for DIN-EN-ISO 93377-2, which replaces DIN H53.

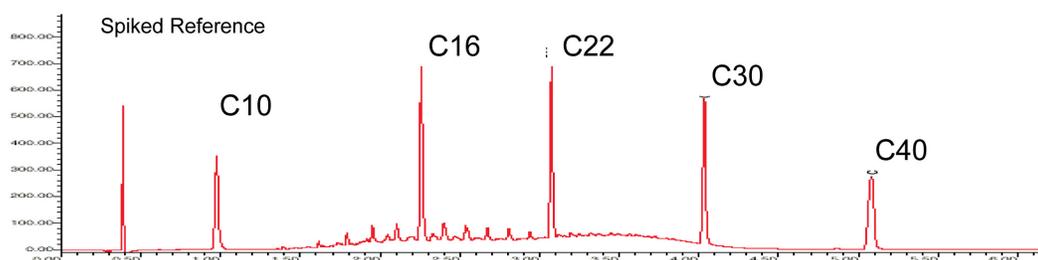
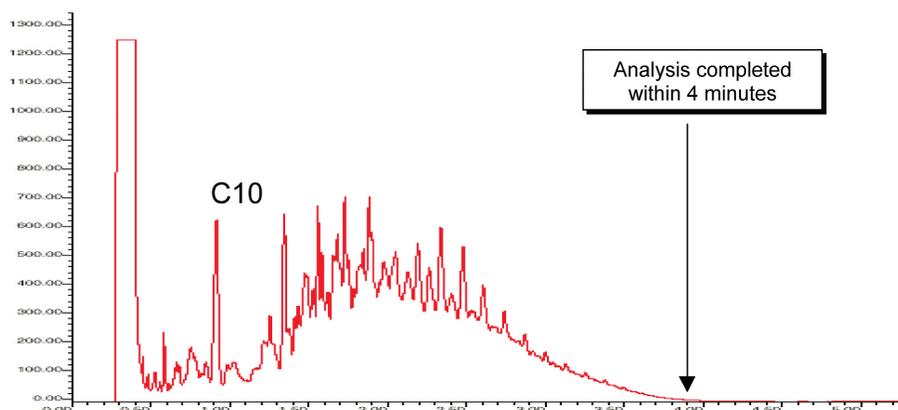


Agilent Technologies

Conditions

Technique : GC
Column : Agilent Select Mineral Oil, 0.32 mm x 15 m fused silica (optimized filmthickness) (Part no. CP7491)
Temperature : 55 °C → 320 °C, ballistic temperature program
Carrier Gas : Helium, 70 kPa
Injector : On-column
Detector : FID
Sample Size : 1.0 µL
Concentration Range : real sample, conc. > 400 mg/L

Courtesy : J. Volkers and J. de Smit, Analytico, Barneveld, The Netherlands



www.agilent.com/chem

This information is subject to change without notice.

© Agilent Technologies, Inc. 2011

Printed in the USA

31 October, 2011



Agilent Technologies