



Halogenated hydrocarbons, $C_2 - C_2$

Analysis of halogenated hydrocarbons in hydrocarbon/water matrix

Application Note

Environmental

Authors

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Introduction

Volatile halogenated hydrocarbons can be measured at ppm level in a matrix of hydrocarbon/moisture with the ELCD detector. The use of the polar porous polymer Agilent PoraPLOT U column reduces the chance of co-elution of hydrocarbon with a halogenated compound, which results in an accuracy better than the 5% level.



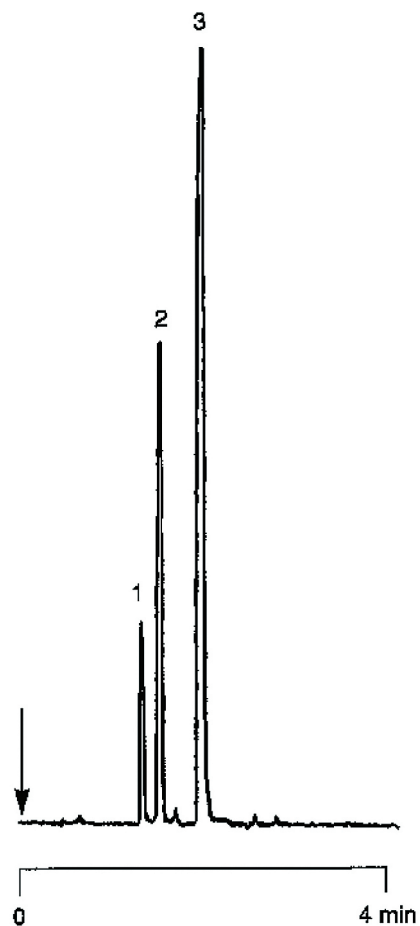
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Conditions

Technique : GC-wide-bore
Column : Agilent PoraPLOT U, 0.53 x 25 m fused silica PLOT
PoraPLOT U (df = 20 µm) (Part no. CP7584)
Temperature : 150 °C
Carrier Gas : He, 80 kPa (0.8 bar, 11.9 psi)
Injector : Split,
T = 200 °C
Detector : ELCD, 0.1.5220 in chloride mode
Reactor gas: H₂
Reactor temp.: 850 °C
Electr. solv.: n-propanol
Concentration range : 1-4 ppm in 50% hydrocarbon/ 50% nitrogen
Courtesy : J. Luong, The Dow chemical Company,
Fort Saskatchewan, Canada

Peak identification

1. chloromethane	1 ppm
2. vinyl chloride	2 ppm
3. chloroethane	3.5 ppm



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This information is subject to change without notice.

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