Chromatography Solutions

Application note # C-13170

GC Analysis of TCA in Cork Samples

1. 2,4,6-trichloroanisole (TCA)
2. 2,3,6-trichloroanisole (Internal standard)

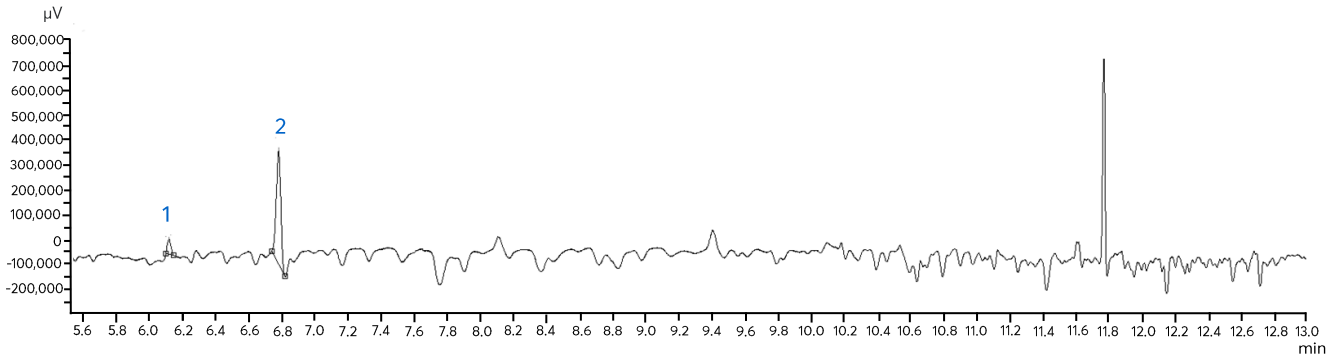

Figure 1: Separation of 2,4,6-trichloroanisole (TCA) in cork samples using the Avantor® Hichrom HI-5MS XIL phase.

Method Details

CONDITIONS

Oven Program:	90 °C, 15 °C/min to 155 °C, hold 5 min, 30 °C/min to 265 °C
Carrier Gas:	Helium, 1 mL/min
Technique:	Solid-Phase Microextraction (SPME)
Injector:	270 °C, 1:30 Split Ratio
Detector:	ECD, 320 °C
Sample Diluent:	12% ethanolic solution (v/v)

The HI-5MS XIL is an ultra-low bleed column with a silphenylene based stationary phase. This versatile, low-polarity phase is well-suited for a wide range of applications, including dioxins, furans, triazines, herbicides and pesticides.

ORDERING TABLE

Product	Details	Dimensions	Part Number
Avantor® Hichrom HI-5MS XIL	GC Column	0.25 mm, 0.25 µm, 30 m	HI19-25-025-30

Avantor®