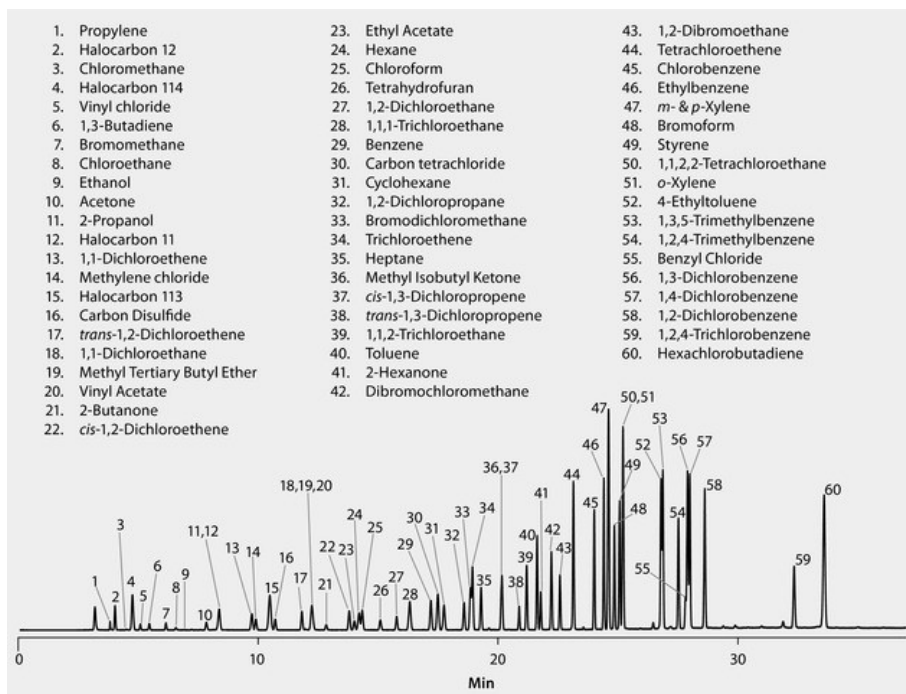


US EPA Method 325: GC Analysis of Volatile Organic Compounds on SPB®-HAP after Thermal Desorption using FLM Carbopack™ X Tube



Conditions

sample/matrix	14 Day Storage Time after Spiking with Gas Mix
dry purge	50 mL/min @ Ambient for 1 min
thermal desorption tube	FLM Carbopack X 1/4" (6.35 mm O.D. X 3.5" (89mm) Long Stainless Steel TD Tube (28686-U)
desorption preheat	FLM Carbopack-X Tube Desorption: 50 mL/min @ 330C for 5 min
desorption process	Refocusing Trap: 7 mL/min @ 330C for 5 min
bake	n/a
column	SPB-HAP. 60 m x 0.32 mm I.D., 4.0µm (25020-U)
oven	40 °C (5 min), 5C/min to 100 °C, 15C/min to 220 °C (12 min)
carrier gas	helium, 2 mL/min @ambient
injection	Thermal Desorption
liner	N/A
transfer line/valve temp.	175 °C
detector	MSD
MSD interface	230C
scan range	Full Scan. m/z 35-265

Description

Analysis Note	Carbopack™-X TD spiked with 12.7 mL of the gas mix using the ATIS Adsorbent Tube Injector System. Swagelok® endcaps were placed on the tube. The spiked tube was stored at ambient temperature for 14 days prior to analysis.
Categories	Analytical Chromatography, GC Applications, Air Monitoring Applications, Volatiles, Aromatics
Featured Industry	Chemicals and Industrial Polymers Environmental Petroleum
Legal Information	SPB is a registered trademark of Sigma-Aldrich Co. LLC, Carbopack is a trademark of Sigma-Aldrich Co. LLC, Swagelok is a registered trademark of Swagelok Company

suitability suitable for air monitoring, application for GC

Materials

Product #	Image	Description
41973-U		EPA TO-15/17 Calibration mix 62 components, 1 ppm in nitrogen, cylinder of 110 L (pi-marked cylinder), analytical standard