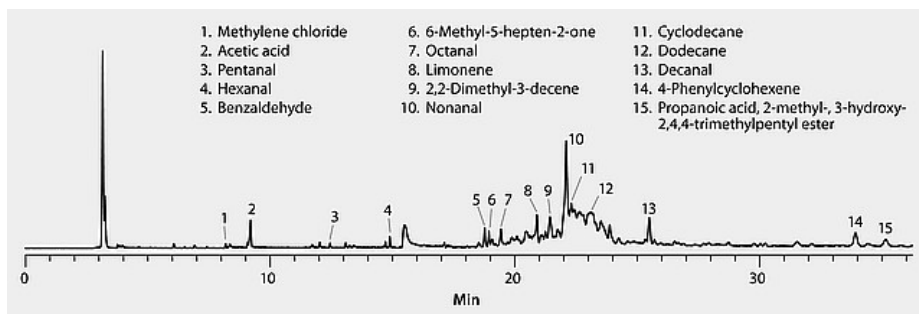


GC Analysis of Volatiles in New Residential Carpet on SPB®-HAP after Collection/Desorption using Carbotrap® 300 Tube



Conditions

sample/matrix	0.5 g new residential carpet
dry purge	15 min
thermal desorption tube	Carbotrap® 300 Glass-Fritted Thermal Desorption Tube, 1/4 in O.D. x 3.5 in L
desorption process	350 °C with 10 min hold
column	SPB®-HAP, 60 m x 0.32 mm I.D., 4 µm (25020-U)
oven	40 °C (3 min), 12 °C/min to 200 °C (20 min)
carrier gas	helium
transfer line/valve temp.	180 °C
detector	MSD
MSD interface	210 °C

Description

Analysis Note	Qualitative volatile headspace outgassing of new residential carpet using the ATIS system with analysis by thermal desorption.
Categories	Analytical Chromatography, Air Monitoring Applications, GC Applications, Volatiles
Featured Industry	Environmental Industrial Hygiene
Legal Information	SPB is a registered trademark of Sigma-Aldrich Co. LLC, Carbotrap is a registered trademark of Sigma-Aldrich Co. LLC
Other Notes	Complementary products: Syringes Vials Gas Purification and Gas Management Inlet Liners, Glass Wool, and Specialized Hand Tools Septa and Specialized Hand Tools Column Ferrules, Nuts, and Specialized Hand Tools
suitability	application for air monitoring, application for GC

Analyte

- 2,2-Dimethyl-3-decene
- 4-Phenylcyclohexene
- 6-Methyl-5-hepten-2-one
- Acetic acid
- Benzaldehyde
- Cyclodecane
- Decanal
- Dodecane
- Hexanal
- Limonene
- Methylene chloride
- Nonanal
- Octanal
- Pentanal
- Propanoic acid, 2-methyl-, 3-hydroxy-, 2,4,4-trimethylpentyl ester

