![SIGMA-ALDRICH®]

US EPA Method 0030: GC Analysis of Volatiles on SPB®-624 after Collection/Desorption using VOST 100 Tube

1. Methanol
2. Methylene chloride, 20 ng
3. 1,1,1-Trichloroethane, 20 ng
4. Benzene, 20 ng
5. Toluene, 20 ng
6. Chlorobenzene-d_5 (surrogate), 50 ng
7. 1,1,1-Trichloropropane, 20 ng

VOST Calibration Standard

Blank
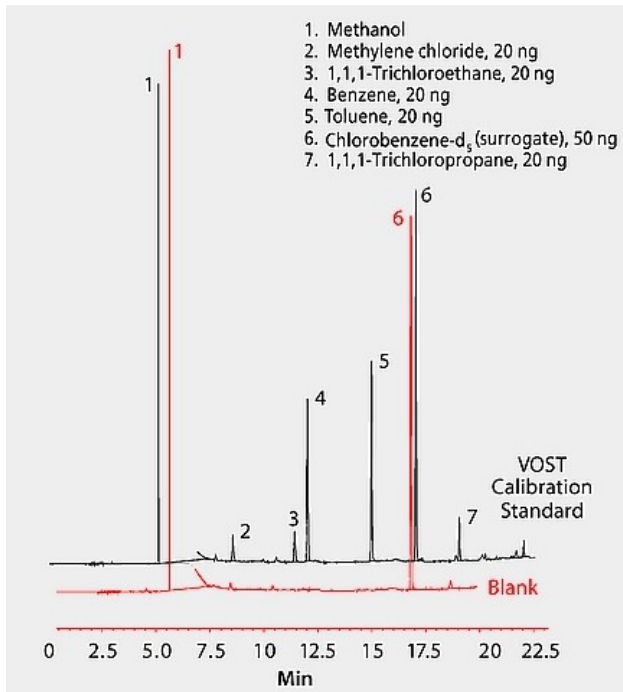
Conditions

adsorbent tube	VOST 100 (20074-U)
purge trap	VOCARB 4000 (20308)
column	SPB-624, 75 m x 0.53 mm I.D., 3.0 µm film (25432)
oven	35 °C (5 min) to 200 °C at 10 °C/min, hold 2 min
carrier gas	helium, 8 mL/min
sample	calibration standard: volatiles in methanol; blank: Tenax TA tube with surrogate thermally desorbed into purge & trap system
detector	FID, 300 °C

Description

Categories	Analytical Chromatography, GC Applications, Air Monitoring Applications, Volatiles
Featured Industry	Environmental Industrial Hygiene
General description	**This is an application, not a product for sale.** See "Related Products" to find associated products for sale.
Legal Information	SPB 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

- 1,1,1-Trichloroethane
- 1,1,1-Trichloropropane
-

- Benzene
- Chlorobenzene-d5
- Methanol
- Methylene chloride
- Toluene

Materials

Product #	Image	Description	
CRM48617		Benzene solution certified reference material, *Trace*CERT®, 200 μg/mL in methanol	
02575	CH_2Cl_2	Dichloromethane analytical standard	
48600	CH_2Cl_2	Dichloromethane solution certified reference material, 200 μg/mL in methanol	
PHR1372	CH_3OH	Methanol Pharmaceutical Secondary Standard; Certified Reference Material	
1424109	CH_3OH	Methyl alcohol United States Pharmacopeia (USP) Reference Standard	
PHR1557	CH_2Cl_2	Methylene Chloride Pharmaceutical Secondary Standard; Certified Reference Material	
20308		Purge/Trap I Vocarb® 4000 configured for Tekmar Velocity XPT, LSC-1, LSC-2, LSC-2000, 4000 (Straight, 12 in./30.5 cm, Swagelok fitting), HT-3	
20074-U		VOST Stack Sampling Tube matrix Tenax TA porous polymer, 35-60 mesh	