

# OSHA Versatile Sampler

For Sampling Pesticides, Explosives, and Glycols

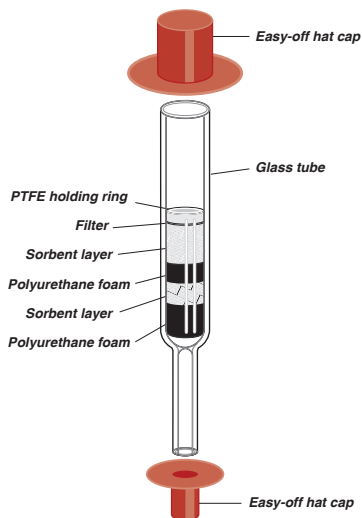


OSHA originally designed OSHA Versatile Sampler (OVS) Tubes to overcome the inconveniences of earlier methods. SKC OVS Tubes contain a filter to trap aerosols and a two-section sorbent bed to adsorb vapors in one specially constructed glass tube that eliminates cumbersome filter and tube sampling trains. Only cleaned and verified materials are used in OVS Tubes to ensure low background interference. A flow rate of 1 L/min provided by a personal sample pump is typically used to obtain volumes ranging from 60 to 480 liters. Samples are solvent extracted and analyzed by gas chromatography (GC) or high-performance liquid chromatography (HPLC) with detector.

Available with a variety of sorbent and filter combinations, SKC OVS Tubes are truly versatile for sampling applications and methods including pesticides such as DDVP (dichlorvos), carbaryl (Sevin®), chlorpyrifos (Dursban®), Diazinon®, malathion, and parathion; explosives such as TNT and DNT; alcohols such as glycols; and biocides.

Other combinations of sorbents or filters following the OVS tube design are available by special order for research or other specialty uses. Contact SKC Sales with your tube specifications.

- ▶ Sorbent and filter combined in one tube
- ▶ Collect vapors and aerosols simultaneously
- ▶ Available with a variety of sorbents for special uses
- ▶ Low backgrounds ensure sample integrity
- ▶ Meet OSHA and NIOSH design specifications
- ▶ Eliminate the need for cumbersome filter and tube sampling trains
- ▶ Easy-off hat caps



# OSHA Versatile Sampler

For Sampling Pesticides, Explosives, and Glycols

## Ordering Information

### Methods that Specify the OSHA Versatile Sampler

Application — Methods	Sorbent (Amount)	Filter	Cat. No.
<b>Pesticides</b> — OSHA 62, 63, 67, 70, 74, OSHA CSI <b>Organotin Compounds*</b> — OSHA CSI	XAD®-2 (270/140 mg)	Glass Fiber	<b>226-30-16</b>
<b>Pesticides</b> , organophosphorus — NIOSH 5600, 5601, and 5602	XAD-2 (270/140 mg)	Quartz Fiber	<b>226-58</b>
<b>Explosives (trinitrotoluene [TNT], dinitrotoluene [DNT])</b> — OSHA 44 <b>Phthalate esters</b> — OSHA 104 <b>Acrylates and Benzophenone</b> — Non-agency method†	Tenax® TA (140/70 mg)	Glass Fiber	<b>226-56</b>
<b>Caprolactam Vapor</b> — OSHA CSI <b>Glycols</b> — NIOSH 5523	XAD-7 (200/100 mg)	Glass Fiber	<b>226-57</b>
<b>Kathon 886 Biocide</b> — Non-agency method‡	Silica gel (520/260)	Glass Fiber	<b>226-99</b>

\* Methyl tin mercaptide, stannous-2-ethyl hexanoate, butyltin trichloride

† Multifunctional Acrylates; Appl. Occup. Environ. Hyg., Vol. 9, Dec. 1994, pp. 977-983

‡ Kathon® 886 Biocide; Sobczak, S.S., Rohm and Haas Corporate Industrial Hygiene Laboratory, Method IH9901, 2001

### OVS Tube Holder

The OVS Tube Holder consists of a standard tube holder fitted with a special durable protective cover for the OVS tube. A collar clip fastened to the protective cover allows for easy attachment to a worker. A flexible metal coil surrounds the tubing just below the holder and allows the tubing to bend without blocking the airflow. The OVS Tube Holder is suitable for use with Universal XR, AirChek® TOUCH, AirChek 2000, and AirChek 52 sample pumps.



OSHA Versatile Sampler tubes are typically used at a flow rate of 1 L/min provided by a personal sample pump. The special OVS tube holder is designed to accommodate the 13-mm diameter of SKC OVS tubes, provide a convenient clip to attach the tube in the breathing zone, and protect the tube during sampling.

The OVS Tube Holder includes fitting with durable protective cover, 3 feet of tubing, and collar clip. *Do not use an Adjustable Low Flow Holder.*

**OVS Tube Holder ..... Cat. No. 224-29V**

### OVS Calibration Adapter Kit

This kit contains two sections of tubing and a calibration adapter to facilitate calibration of a sample pump when using an OVS Tube.

**Calibration Adapter Kit ..... Cat. No. 224-31**

### Multi-purpose Calibration Jar

The SKC Multi-purpose Calibration Jar provides convenient calibration when using a GS Cyclone, PUF tube, OVS tube, the IOM, or the PEM. Instead of packing four or five different calibration adapters for the field, pack only one Multi-purpose Calibration Jar. The rugged 32-ounce polypropylene jar contains a quick screw cap and barbed fitting for easy connection.



**Multi-purpose Calibration Jar ..... Cat. No. 225-111**

### SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to <http://www.skcinc.com/warranty>.

