

SKC Sampling Solutions

For Fugitive Emissions/Fenceline Testing

Recognition

Fugitive emissions are emissions of gases and vapors due to leaks from components in pressurized equipment including pipe connections, valves, and mechanical seals. Fugitive emissions also occur at waste management facilities, storage tanks, and agricultural sites. Fugitive emissions contribute to air pollution and climate change and can affect public health, particularly that of residents in nearby communities. In 2015, U.S. EPA published Method 325 to address fugitive emission of benzene from petroleum refineries. It includes two sub-parts with Method 325B addressing sample preparation and analysis using passive diffusive samplers.

SKC offers a passive sampling solution for Method 325B for fenceline monitoring of benzene. In addition, SKC offers active sampling solutions for target compounds and an environmental perimeter air station for multiple compounds.

See the SKC equipment recommended for fugitive emissions/fenceline testing.

Evaluation with SKC Sampling Solutions

For over 50 years, SKC has led the research, design, and manufacture of quality sampling equipment and media to aid health and safety professionals in the evaluation of occupational and environmental hazards.

Choose from SKC method-based sampling solutions for fugitive emissions/fenceline testing, including sample pumps, sample tubes, sample bags, passive samplers, and innovative portable instruments.

Air Sample Pumps



Sampling Media



Portable Instruments



See reverse side for specific method and sampling equipment/media information.



For Fugitive Emissions/Fenceline Testing

Sample Collection

Active Air Sampling Solutions

SKC manufactures and stocks Tedlar, FlexFoil, and custom sample bags with a choice of stainless steel, polypropylene, or PTFE fittings. See the SKC Sample Bag Stability Report to choose the bag best suited to your target compound.

Target Compound	Select Methods*	SKC Sample Collection Media and Cat. No.	SKC Sample Pump and Cat. No.	Notes
Carbon dioxide†	NIOSH 6603 OSHA ID 172	Tedlar® sample bag 231-05 or 232-05	Pocket Pump TOUCH 220-1000TC or Grab Air 222-2301	Requires PTFE tubing
Methane	---	Tedlar or FlexFoil sample bag	Grab Air 222-2301 or Pocket Pump TOUCH 220-1000TC	Requires PTFE tubing
Nitrogen dioxide/ Nitric oxide	NON 59	Sorbent tube 226-40A	Pocket Pump TOUCH 220-1000TC	
Sulfur dioxide	OSHA ID 200	Sorbent tube 226-80	Pocket Pump TOUCH 220-1000TC	
	---	Tedlar sample bag 231-10	Grab Air 222-2301	Requires PTFE tubing
Sulfur hexafluoride†	NIOSH 6602	Tedlar sample bag 231-03 or 232-03	Pocket Pump TOUCH 220-1000TC or Grab Air 222-2301	Requires PTFE tubing
VOCs	EPA TO-17	Sorbent tube 226-300 Series	Pocket Pump TOUCH 220-1000TC	
VOCs	NIOSH 1500 NIOSH 1501	Sorbent tube 226-01	Pocket Pump TOUCH 220-1000TC	

† For these target compounds, SKC also recommends using Tedlar 232 Series, FlexFoil 262 Series, or FlexFoil PLUS 252 Series sample bags with the Vac-U-Chamber 231 Series and AirChek XR5000 sample pump.

Passive Air Sampling Solutions

Target Compound	Select Methods*	SKC Sample Collection Media and Cat. No.	Notes
Benzene	EPA 325A and B	Passive TD Tube 226-520 (includes diffusion cap); Sampling Shelter 226-526 available	
Nitrogen dioxide and/or sulfur dioxide	Research Reports 1781 and 1789	UMEX® 200 Passive Sampler for NO ₂ /SO ₂	
VOCs	EPA TO-17/Research Report 1812	ULTRA® 690 Series, choice of four sorbents	

Monitoring Solutions

Target Compound	Instrument and SKC Cat. No.	Notes
VOCs	HAZ-SCANNER EPAS	Custom configured

* Other methods may apply. SKC recommends those listed.

