

Sampling Solutions for Formaldehyde

Introduction

Workers in many industries may be exposed to formaldehyde and other aldehydes such as glutaraldehyde and acetaldehyde. Workplace exposure is particularly common in hospitals, medical and veterinary facilities, hair salons, furniture and wood board industries, and garment industries. Exposure to formaldehyde can cause mild to severe health problems. In 2004, the International Agency for Research on Cancer (IARC) classified formaldehyde as a known human carcinogen.



SKC offers active and passive sampling solutions for collecting formaldehyde and other aldehydes for industrial hygiene and environmental applications. SKC active samplers require an air sample pump to collect hazardous gases, vapours, and particulates in air; passive samplers collect hazardous vapours by diffusion without the use of an air sample pump.

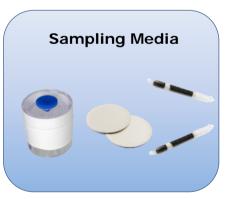
SKC Sampling Solutions

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.

SKC method-based sampling solutions for formaldehyde and other aldehydes include air sample pumps, active and passive samplers, and filter cassettes following agency methods and established protocols.







Sample Collection

Active Air Sampling Solutions

Target	Select	SKC Sample Collection	SKC Sample Pump	Notes
Compound	Methods*	Media and Part No.	and Part No.	
Acetaldehyde	ASTM D5197	Sorbent tube <u>226-120</u> or	AirChek TOUCH	226-120 has ozone
		<u>226-119</u>	220-5000TC	scrubber.
	NIOSH 2538	Sorbent tube 226-27	or Pocket Pump TOUCH	
			220-1000TC	
	NIOSH 2539	Sorbent tube <u>226-118</u>	220-100010	Suitable for
				occupational levels.
	NIOSH 3507	Midget impinger 225-36-2		
		and impinger trap 225-22		
	<u>OSHA 68</u>	Sorbent tube 226-27		
Formaldehyde	ASTM D5197	Sorbent tube <u>226-119</u> ,		226-119-7 has a larger
	EPA TO-11A	<u>226-119-7</u> , or <u>226-120</u>		outer diameter to
	EPA IP-6A			reduce pressure drop;
				226-120 has ozone
				scrubber. Suitable for ambient or indoor air.
	NIOSH 2016	Sorbent tube 226-119		AirChek TOUCH offers
	N103H 2010	301 Delit tube <u>220-119</u>		the option of higher
				flow rates. This NIOSH
				method is very sensitive.
	NIOSH 2539	Sorbent tube 226-118		Suitable for
	NIOSH 2541			occupational levels.
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	NIOSH 3500	Two impingers <u>225-36-1</u> ,		Most sensitive NIOSH
		trap 225-22, PTFE filter		method; best suited for
		225-1709, and screen 225-26		area samples.
	OSHA 52	Sorbent tube 226-54 or		226-117 for TWAs and
	<u>OSHA 52</u>	226-117		226-54 for STEL
		220-117		sampling.
Formaldehyde	NIOSH 5700	IOM Sampler 225-70A	AirChek TOUCH	For textile or wood
on dust		with PVC filter <u>225-5-25</u>	220-5000TC	dust.
Glutaraldehyde	NIOSH 2531	Sorbent tube 226-118	Pocket Pump TOUCH	
	NIOSH 2532	Sorbent tube 226-119	220-1000TC	
		Sorbent tube 226-10	AirChek TOUCH	
			220-5000TC	
	<u>OSHA 64</u>	Preloaded coated filter	AirChek TOUCH	
		cassette <u>225-9003</u>	220-5000TC	
		<u>l</u>		

^{*} Other methods may apply. SKC recommends those listed.

Passive Air Sampling Solutions

Target Compound	Select Methods*/ SKC Validation	SKC Sample Collection Media and Part No.	Notes
Formaldehydes	OSHA 1007	UME ^x 100	U.S. OSHA requires active
and other	EPA IP-6C	<u>500-100</u>	sampling when the source of
aldehydes	EPA TO-11A/Research		formaldehyde is formalin.
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^{*} Other methods may apply. SKC recommends those listed.