

**EPA Method TO-11A, EPA IP-6A, and ASTM D 5197****Formaldehyde Sample Tubes**

- High capacity
- Low background
- Meet EPA and ASTM specifications
- Available with ozone scrubber
- Environmental and industrial hygiene applications

**Description**

SKC Formaldehyde Tubes meet EPA Method TO-11A (Jan. 1997) and ASTM D 5197 (May 1997) specifications for the determination of formaldehyde (and other aldehyde) concentrations in ambient and indoor air.

SKC Formaldehyde Tubes Cat. No. 226-119 (6-mm OD x 110-mm length) and Cat. No. 226-119-7 (7-mm OD x 110-mm length) each contain a 300-mg front sorbent section and a 150-mg backup sorbent section. The high-purity silica gel with low background is coated with 2,4-dinitrophenylhydrazine (DNPH) as specified in EPA TO-11A and ASTM D 5197. SKC tube Cat. No. 226-120 (8-mm OD x 115-mm length) contains the same coated sorbent and backup sections as well as a section of potassium iodide (ozone scrubber) as suggested in ASTM D 5197.

**Applications**

Low background and high capacity make SKC Formaldehyde Tubes extremely useful for both environmental and industrial hygiene applications. In addition, the DNPH chemistry lends itself to monitoring other aldehydes simultaneously in the workplace environment. The larger diameter tubes, Cat. Nos. 226-119-7 and 226-120, can be used at flows up to 1 L/min. SKC tube Cat. No. 226-119 has a maximum flow rate of 500 ml/min.

**Performance**

Formaldehyde and other aldehydes react with DNPH to form stable hydrazones, which are extracted from the silica gel and analyzed by liquid chromatography. SKC Formaldehyde Tubes have a backup section to detect sample breakthrough. With high-purity, low formaldehyde background sorbent, SKC Formaldehyde tubes meet EPA TO-11A requirements.

**Ordering Information**

Description	Cat. No.	Qty.
<b>Formaldehyde Sampling Tube,**</b> high-purity silica gel with low background coated with 2,4-DNPH, 150/300 mg, 6-mm OD, for flows up to 500 ml/min	226-119	20
<b>Formaldehyde Sampling Tube,**</b> high-purity silica gel with low background coated with 2,4-DNPH, 150/300 mg, 7-mm OD, for flows up to 1 L/min	226-119-7	20
<b>Formaldehyde Sampling Tube,**</b> with built-in ozone scrubber (potassium iodide), high-purity silica gel with low background coated with 2,4-DNPH, 150/300/1500 mg, 8-mm OD, for flows up to 1 L/min	226-120	20

\* This tube is not suitable for sampling acrolein.

# Limited shelf-life; freezer storage is required.

**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.asp>.