



## Operating Instructions

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# Sorbent Sample Tubes

## Cat. Nos. 226-119 and 226-119-7

### Description

Sorbent sample tubes Cat. Nos. 226-119 and 226-119-7 are two-section tubes containing 300 and 150 mg of DNPH-coated silica gel, respectively. The second section acts as a backup section to detect sample breakthrough. Store at  $\leq 39.2$  (4 C).

### Sampling

Select Cat. No. 226-119 for flows up to 500 ml/min or Cat. No. 226-119-7 for flows up to 1 L/min. For additional sampling parameters, consult the method used. Sampling parameters may vary with ambient concentrations of the analyte.

These sorbent tubes **are not recommended for the collection of acrolein** due to numerous problems reported with the instability of the acrolein-DNPH derivative during collection and storage.

### Sampling Notes

**Ozone:** Ozone interference is associated with DNPH-coated adsorbent tubes. Sorbent sample tube Cat. No. 226-120 contains the same sorbent as the 226-119/119-7 tubes but also includes a built-in ozone scrubber for use in atmospheres where ozone is present. The 226-120 tube may be operated at flows up to 1 L/min.

**Acetonitrile:** The sorbent inside these tubes contains a small amount of residual acetonitrile used in processing the sorbent. Acetonitrile may off-gas during sampling; therefore, exposure monitoring for acetonitrile should **not** be performed concurrently when these sorbent tubes are in use.

### Background

See Certificates of Analysis at [www.skcinc.com/knowledgecenter](http://www.skcinc.com/knowledgecenter): search on Silica Gel, DNPH Treated, High Purity and select the Lot Number that matches the Lot Number printed on the tube.

### Analysis of Formaldehyde Samples

1. Place each sorbent section into separate glass vials.
2. Add 3 ml of acetonitrile to each vial. Cap each vial.
3. Shake each vial periodically over a 30-minute period.
4. Analyze sample extracts by HPLC with UV detection at 365 nm.