

TECHNICAL INSERT

Item No	580	TraceAir® Monitor for	Prepared by	SCW
Edition	1/3/2012	Aldehydes	Approved by	SLG

The TraceAir® Personal Monitor is designed to measure exposure to chemicals in order to demonstrate workplace compliance with Permissible Exposure Limits (PELs) and Short Term Exposure Limits (STELs) defined by the Occupational Safety and Health Act of 1970 and Title 29 Code of Federal Regulations.

This **Technical Insert** contains product specific information on use and storage. **Sample capacity, detection limit, and sampling rate values are for when sampling with both covers removed, which is the recommended method of sampling.**

9159-580 1/2012

Sampling Medium:	Fiberglass coated with 2,4-dinitrophenylhydrazine (DNPH)
Analytes Sampled:	Glutaraldehyde, and o-Phthalaldehyde; See <i>AT Labs IH Sampling Guide</i> for other aldehydes
Analytical Method:	Modified OSHA 1007; Modified OSHA 64; Modified EPA TO-11: Desorption in acetonitrile; analysis of the DNPH derivative by high performance liquid chromatography (HPLC) with UV/VIS detector
Recommended Sampling Time:	Glutaraldehyde: Ceiling = 15 min (<u>with both covers removed</u>) o-Phthalaldehyde: STEL = 15 min (<u>with both covers removed</u>) Functional range: 15 minutes - 72 hours
Recommended Holding Time:	Monitors must be received by Lab within four (4) weeks after sampling.
Sample Capacity:	Glutaraldehyde: Ceiling = 2.5 ppm for 8 hours (20 ppm-hrs) o-Phthalaldehyde: STEL = 2.5 ppm for 8 hours (20 ppm-hrs)
Detection Limit (DL):	Glutaraldehyde: 0.002 ppm for 15 min (0.0005 ppm-hrs) o-Phthalaldehyde: 0.002 ppm for 15 min (0.0004 ppm-hrs)
Sampling Rate (SR):	Glutaraldehyde: 60.2 mL/min (<u>with both covers removed</u>) o-Phthalaldehyde: 54.8 mL/min (<u>with both covers removed</u>)
Interfering Substance(s):	Other aldehydes and ketones do not interfere and can be analyzed separately if HPLC resolution is adequate.
Effect of Temperature:	Effect on result ≤ 5% within 0 - 50°C (32 - 122°F).
Effect of Humidity:	Functions as claimed within 20 - 80% RH.
Accuracy (MTE):	Meets or exceeds OSHA requirements for accuracy: Maximum Total Error (MTE) ≤ 25% at PEL; ≤ 35% at STEL and action level.
Storage Conditions:	Store under refrigerated conditions for maximum shelf life. Do Not Use after Expiration Date printed on pouch.
IMPORTANT:	Warranty valid only if Instructions for Use have been followed.
WARNING:	Wash affected area thoroughly if Sampling Medium is contacted.

For detailed directions, see **Instructions for Use** included in each package of Monitors.

For information about each analyte which can be sampled, refer to *AT Labs IH Sampling Guide* at <http://www.assaytech.us> or call **TOLL FREE NUMBER 1-800-833-1258**