

## TECHNICAL INSERT

Item No	581	TraceAir®II Monitor for	Prepared by	VL
Edition	9/28/2017	Aldehydes	Approved by	CRM

The TraceAir®II 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.**

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<b>Sampling Medium:</b>	Fiberglass coated with 2,4-dinitrophenylhydrazine (DNPH)
<b>Analytes Sampled:</b>	Glutaraldehyde, and o-Phthalaldehyde; See <i>Sampling Guide</i> for other aldehydes
<b>Analytical Method:</b>	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
<b>Recommended Sampling Time:</b>	Glutaraldehyde: Ceiling = 15 min o-Phthalaldehyde: STEL = 15 min Functional range: 15 minutes - 72 hours
<b>Recommended Holding Time:</b>	Monitors must be received by Lab <b>within four (4) weeks after sampling.</b>
<b>Sample Capacity:</b>	Glutaraldehyde: Ceiling = 2.5 ppm for 8 hours (20 ppm-hrs) o-Phthalaldehyde: STEL = 2.5 ppm for 8 hours (20 ppm-hrs)
<b>Detection Limit (DL):</b>	Glutaraldehyde: 0.002 ppm for 15 min (0.0005 ppm-hrs) o-Phthalaldehyde: 0.002 ppm for 15 min (0.0004 ppm-hrs)
<b>Sampling Rate (SR):</b>	Glutaraldehyde: 63.2 mL/min o-Phthalaldehyde: 57.5 mL/min
<b>Interfering Substance(s):</b>	Other aldehydes and ketones do not interfere and can be analyzed separately if HPLC resolution is adequate.
<b>Effect of Temperature:</b>	Effect on result $\leq$ 5% within 0 - 50°C (32 - 122°F).
<b>Effect of Humidity:</b>	Functions as claimed within 20 - 80% RH.
<b>Accuracy (MTE):</b>	Meets or exceeds OSHA requirements for accuracy: Maximum Total Error (MTE) $\leq$ 25% at PEL; $\leq$ 25% at STEL and action level.
<b>Storage Conditions:</b>	Store under <b>refrigerated conditions</b> for maximum shelf life, Do Not Use after Expiration Date printed on pouch.
<b>IMPORTANT:</b>	Warranty valid only if <b>Instructions for Use</b> have been followed.
<b>WARNING:</b>	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 *Sampling Guide*.