

TECHNICAL INSERT

Item No	592	ChemDisk™ Monitor for Acrolein	Prepared by	SCW
Edition	11/18/2009		Approved by	CRM

The ChemDisk™ 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.

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Sampling Medium:	Silica gel disk treated with 2-hydroxymethylpiperidine
Analyte Sampled:	Acrolein
Analytical Method:	Modified OSHA-52: 2-hydroxymethylpiperidine (2-piperidinemethanol) reacts with acrolein to produce a derivative which is extracted with toluene and analyzed by gas chromatography with nitrogen phosphorus detector (GC/NPD).
Recommended Sampling Time:	PEL = 8 hours or full shift Functional Range: 6 – 12 hours
Recommended Holding Time:	Monitors must be received by Lab within two (2) weeks after sampling.
Sample Capacity:	10 ppm for 8 hour sample (80 ppm-hrs)
Detection Limit (DL):	0.05 ppm for 8 hour sample
Sampling Rate (SR):	8.56 mL/min
Interfering Substance(s):	None known
Effect of Temperature:	Effect on result ≤ 5% within 0 - 50 °C (32 - 122 °F)
Effect of Humidity:	Functions as claimed within 10 - 80% RH.
Accuracy (MTE):	Meets or exceeds OSHA requirements for accuracy: Maximum Total Error (MTE) ≤ 25% at PEL
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.