

HEALTH & SAFETY LABORATORY



ORGANICS (AIR & BULK MATERIALS) ROUTINE ASSAYS

SUBSTANCE TYPE	ANALYTE	METHOD	MIN BATCH SIZE	PRICE PER (ADDITIONAL) SAMPLE	RECOMMENDED FILTERS OR SAMPLE	LEAD TIME	SAMPLE VOLUME	NOTES
VOCs in Air by sorbent tube and thermal desorption	1 to 4 compounds	MDHS 72 / MDHS 80; ATD-GC-FID	10 (£865)	£82	Sorbent tube (TD)	48 hours		Sampling tubes supplied by HSL
	5 to 10 compounds*	MDHS 72 / MDHS 80; ATD-GC-FID	10 (£1082)	£103				
	11 to 20 compounds*	MDHS 72 / MDHS 80; ATD-GC-FID	10 (£1299)	£124				
	1 to 4 compounds*	MDHS 72 / MDHS 80; ATD-GC-MS	10 (£1082)	£103				
	5 to 10 compounds*	MDHS 72 / MDHS 80; ATD-GC-MS	10 (£1288)	£124				
	11 to 20 compounds*	MDHS 72 / MDHS 80; ATD-GC-MS	10 (£1580)	£144				
	Diacetyl	ATD-GC-MS	10 (£630)	£54				
(Very)VOCs in air	Nitrous Oxide	ATD-GC-ECD	10 (£1000)	£77	Gas cylinder/bag		Tedlar bag (1 - 5 litre)	Sampling bags can be supplied by HSL at additional cost
	Alkanes (methane to butane)	GSV-GC-FID	1 (£609)	£79				
Organic Compounds in Air by Solvent Desorption	Ethylcyanoacrylate	HPLC	10 (£848)	£84	Tenax (modified 226-35-3)	5 working days [†]	Filters supplied by HSL	[†] subject to availability
	Formaldehyde*	MDHS 102 - HPLC	10 (£860)	£67	DNPH coated filter	48 hours	Filter supplied by HSL	
	Formaldehyde	MDHS 102 - HPLC	10 (£860)	£67	DNPH sorbent tube			Sample tubes can be supplied by HSL at additional cost
	Formaldehyde	MDHS 102 - HPLC	10 (£860)	£67	UMEx 100 DNPH passive badge**			** or similar type; badges can be supplied by HSL at additional cost
	Piperazine	GC-MS	10 (£1000)	£84	Acid coated filter	5 working days [†]	Filters supplied by HSL	[†] subject to availability
	Hydrazine	Based on MDHS 86/2 ^{††} or OSHA 108-HPLC	10 (£900)	£77	Acid coated filter	5 working days [†]	Filters supplied by HSL	[†] subject to availability ^{††} MDHS method uses an impinger for long term sampling
	Solder fume (colophony)	MDHS 83 - GC-FID	10 (£795)	£64	Membrane filter	3 working days	Sampling heads supplied by HSL	
Environmental Tobacco Smoke (ETS)	RPM UVPM and FPM (includes gravimetric)	ISO 15593 - HPLC	10 (£1270)	£111	PTFE Filter	5 working days [†]	Samplers supplied by HSL	[†] subject to availability
	Solanosol	ISO 18144 - HPLC	10 (£849)	£84	PTFE Filter	5 working days [†]	Samplers supplied by HSL	[†] subject to availability
	Nicotine and 3-ethenylpyridine	ISO 18145 - GC-MS	10 (£955)	£96	XAD-4 sorbent tube	5 working days [†]	Samplers supplied by HSL	[†] subject to availability
	Nicotine and 3-ethenylpyridine	GC-MS	10 (£925)	£96	3M 3500 passive badge			
Permanent gases	Oxygen, Nitrogen, Argon, Carbon Monoxide	GSV-GC-TCD	1 (£610)	£80	Gas cylinder/bag		Tedlar bag (1 - 5 litre)	Sampling bags can be supplied by HSL at additional cost
	Hydrogen, Helium	GSV-GC-TCD	1 (£610)	£80	Gas cylinder/bag		Tedlar bag (1 - 5 litre)	Sampling bags can be supplied by HSL at additional cost

Polymers	Bulk Identification (Hard plastics)	Infra-red Spectroscopy	1 (£265)	£180	Bulk sample			
	Bulk Identification (Soft plastics/rubber)	Pyrolysis-GC-MS	1 (£434)	£265	Bulk sample			
Pyrolysis Products	Qualitative analysis of main organic components evolved on heating of material	Pyrolysis-GC-MS	1 (£425)	£265	Bulk sample			

** UKAS accredited*

TURNAROUND (from receipt of samples + correct paperwork) is 15 working days

HSL will provide an appropriate number of blanks per batch to be used in this analysis: Up to 8 samples: 2 blanks; 8+ samples: 3 blanks. There will be no additional cost for these.

All sampling media must be returned. A charge will be made for any sampling media not returned.