

# HEALTH & SAFETY LABORATORY



## ORGANICS (AIR & BULK MATERIALS) ROUTINE ASSAYS

SUBSTANCE TYPE	ANALYTE	METHOD	PRICE	PRICE PER (ADDITIONAL) SAMPLE	MINIMUM BATCH REQUIREMENTS / RECOMMENDED SAMPLING MEDIA
*VOCs in Air by sorbent tube and thermal desorption	1 to 4 compounds*	MDHS 72 / MDHS 80; ATD-GC-FID	£890	£84	10 / Sorbent tube (TD)
	5 to 10 compounds*	MDHS 72 / MDHS 80; ATD-GC-FID	£1,114	£106	
	11 to 20 compounds*	MDHS 72 / MDHS 80; ATD-GC-FID	£1,338	£127	
	1 to 4 compounds*	MDHS 72 / MDHS 80; ATD-GC-MS	£1,114	£106	
	5 to 10 compounds*	MDHS 72 / MDHS 80; ATD-GC-MS	£1,326	£127	
	11 to 20 compounds*	MDHS 72 / MDHS 80; ATD-GC-MS	£1,627	£148	
Diacetyl	Diacetyl	ATD-GC-MS	£668	£56	
(Very)VOCs in air	Nitrous Oxide	ATD-GC-ECD	£1,030	£79	
	Alkanes (methane to butane)	GSV-GC-FID	£627	£81	Gas cylinder/Tedlar bag 1-5 litre <sup>1</sup>
Organic Compounds in Air by Solvent Desorption	Ethylcyanoacrylate	HPLC	£873	£86	10 / Tenax (modified 226-35-3)
	Formaldehyde*	MDHS 102 - HPLC	£886	£69	10 / DNPH coated filter
	Formaldehyde	MDHS 102 - HPLC	£876	£59	10/ DNPH sorbent tube <sup>1</sup>
	Formaldehyde	MDHS 102 - HPLC	£876	£59	10 / UME <sub>x</sub> 100 DNPH passive badge (or similar) <sup>1</sup>
	Piperazine	GC-MS	£1,030	£86	10 / Acid coated filter
	Hydrazine	Based on MDHS 86/2 <sup>++</sup> or OSHA 108-HPLC	£927	£79	10 / Acid coated filter
	Solder fume (colophony)	MDHS 83 - GC-FID	£819	£66	10 / Membrane filter
Environmental Tobacco Smoke (ETS)	RPM UVPM and FPM (includes gravimetric)	ISO 15593 - HPLC	£1,308	£114	10 / PTFE Filter
	Solanosol	ISO 18144 - HPLC	£874	£87	10 / PTFE Filter
	Nicotine and 3-ethenylpyridine	ISO 18145 - GC-MS	£984	£99	10 / XAD-4 sorbent tube
	Nicotine and 3-ethenylpyridine	GC-MS	£953	£99	10 / 3M 3500 passive badge <sup>1</sup>

<b>Permanent gases</b>	Oxygen, Nitrogen, Argon, Carbon Monoxide, Hydrogen, Helium	GSV-GC-TCD	£628	£82	Gas cylinder/Tedlar bag 1-5 litre <sup>1</sup>
<b>Polymers</b>	Bulk Identification (Hard plastics)	Infra-red Spectroscopy	£273	£185	Bulk sample <sup>1</sup>
	Bulk Identification (Soft plastics/rubber)	Pyrolysis-GC-MS	£447	£273	Bulk sample <sup>1</sup>
<b>Pyrolysis Products</b>	Qualitative analysis of main organic components evolved on heating of material	Pyrolysis-GC-MS	£438	£273	Bulk sample <sup>1</sup>

**\* UKAS accredited**

**1. Does not include loan of sampling media**

**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.**

**Sampling tubes, tedlar bags, badges and filters can be supplied by HSL. There may be an additional cost.**

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

**Please contact the analytical chemistry Service Manager for more information, including lead times - [glen.mcconnachie@hsl.gsi.gov.uk](mailto:glen.mcconnachie@hsl.gsi.gov.uk).**