



Environmental Science

# Summa capability for Air Monitoring



Lab in operation  
24/7



Dedicated  
logistics fleet



Customer service  
focused



Fastest growing  
& Most Innovative Lab



5 day turnaround  
(3 day on request)

# i2 Analytical can offer UKAS accredited testing on Summa canisters to its clients across the UK and worldwide.

## What are Summa Canisters?

We can provide a UKAS Accredited TO-15 Suite of analysis that includes 65 separate compounds together with the following additional analysis:

- Petrol range ali/aro splits from C6-C7, C7-C8, C8-C10, C5-C12;
- An extensive target suite of 26 compounds from C1- C6 hydrocarbons; and
- Bulk gases of Oxygen, Nitrogen, Carbon Dioxide, Carbon Monoxide, Methane & Hydrogen.

## Benefits over Tedlar Bags

- Supplied with a flow controller to regulate air flow over a project specific period
- Also the ability to take grab samples from site with no air flow controller
- Ease of use
- Increased holding times
- Canisters supplied under calibrated vacuum conditions with no further equipment needed on site



Please call us on 01923 225404 or email [reception@i2analytical.com](mailto:reception@i2analytical.com)

7 Woodshots Meadow, Croxley Park, Watford, Herts, WD18 8YS

# Air monitoring on your site to <math><0.5\text{ppbv}</math> required?

Supporting the target suites we are also able to screen for unknown compounds. Should targeted analysis be required for determinands outside of our established methods we have the capability to define bespoke client based suites to allow for a variety of project and site needs.

## Supporting Best Practice

The use of Summa canisters for projects is in line with the following best practice guidance:

- BS8576:2013 Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOCs)
- CIRIA C682 – The VOCs Handbook, investigating, assessing and managing risks from inhalation of VOCs at land affected by contamination, 2009

## Why use a Summa Canister?

- Large sample volume allows for all testing to be performed from a single canister
- Analytes stable for 21 days with the exception of vinyl acetate at 18 days
- No adsorption efficiencies to worry about or tube suitability selection
- 8 hr TWA sampling or grab sample
- Ideal for unknown compound sampling



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# Comparison of Canisters to Tedlar Bags

	Canisters	Bags
<b>Mode of Sampling</b>	Passive (vacuum)	Active (pump required)
<b>Hold Time to Analysis</b>	Up to 21 days*	Up to 5 days**
<b>Surface Inertness</b>	Excellent	Fair
<b>Cleanliness</b>	100% certified to ppbv/pptv levels	Some VOCs present in the ppmv
<b>Sample Application</b>	Ambient air, soil vapour/gas	Soil vapour/gas, stationary sources
<b>Method Sensitivity</b>	ppbv	ppmv

\* Excluding vinyl acetate      \*\* excluding hydrogen

## The bulk gas suite consists of: (26 target compounds)

C6+	hydrogen	methane
ethane	ethylene	oxygen/argon
propane	nitrogen	propylene
i-butane	n-butane	propadiene
acetylene	carbon dioxide	t-2-butene
i-butene	i-butylene	c-2-butene
i-pentane	n-pentane	1,3-butadiene
methyl-acetylene	carbon monoxide	t-2-pentene
i-pentene	2-methyl-2-butene	c-2-pentene

## The TO-15 suite consists of: (65 target compounds)

propene	dichlorodifluoromethane	dichlorotetrafluoroethane
vinyl chloride	chloromethane	1,3-butadiene
bromomethane	chloroethane	trichlorofluoromethane
ethanol	acrolein	1,1-dichloroethene
trichlorotrifluoroethane	acetone	carbon disulphide
isopropyl alcohol	dichloromethane	trans-1,2-dichloroethene
MTBE	hexane	1,1-dichloroethane
vinyl acetate	cis-1,2-dichloroethene	MEK
ethyl acetate	THF	chloroform
1,1,1-trichloroethane	cyclohexane	carbon tetrachloride
benzene	1,2-dichloroethane	heptane
trichloroethene	1,2-dichloropropane	methyl methacrylate
1,4-dioxane	bromodichloromethane	cis-1,3-dichloropropene
MIBK	toluene	trans-1,3-dichloropropene
1,1,2-trichloroethane	tetrachloroethene	2-hexanone (MBK)
dibromochloromethane	1,2-dibromoethane	chlorobenzene
ethyl benzene	m/p-xylene	o-xylene
styrene	bromoform	1,1,2,2-tetrachloroethane
4-ethyl toluene	1,3,5-trimethyl benzene	1,2,4-trimethyl benzene
1,3-dichlorobenzene	1,4-dichlorobenzene	benzyl chloride
1,2-dichlorobenzene	1,2,4-trichlorobenzene	hexachlorobutadiene
naphthalene		



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[Click here for full details of the accreditation](#)

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## i2 SERVICES



- Standard 5 day turnaround (3 day on request)
- State of the art canisters delivered in custom-made boxes
- Sample collections by our own fleet of dedicated vehicles
- Customer focused service
- Committed ongoing investment into the latest equipment
- Brand new laboratories with the latest technology
- Sustainability - active in reducing carbon footprint (electric vehicles, renewable energy)
- International reach

## i2 GLOBAL REACH



Laboratories



UK



POLAND



SOUTH AFRICA

Sample Reception and Logistics Centres

DONCASTER

AYLESFORD

NORTHAMPTON

SCOTLAND

WATFORD

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