

# Product Data Sheet

## Part number:- Gas Sampling & Analysis Service

Accurate consistent gas sampling and analysis is the basis to understand your gas contamination levels and also vital information when specifying the siloxanes removal system necessary to protect your equipment.

PpTek has cooperated with a major UK Laboratory to construct a sample / analysis kit that will ensure that a sample can be taken any where in the world, transported to the Laboratory by main stream courier swiftly and an analysis / report made all at a sensible cost.

By utilising the Automatically Thermally Desorbed (ATM) method of collection on Tenax Tubes, it ensures that no actual gas is transported to the Lab thus conforming to the carriers requirements and rules and possible Tedlar bag siloxanes retention is avoided.

### Sample features

- Full kit included to take sample
  - Tedlar Bag
  - Tenax Tube
  - Sample syringe
  - Connecting pipe
- Kit cost includes analysis and full gas report
- Analysis performed on full GCMS
- Compared against Certified Reference Stds
- Laboratory accredited to UKAS standards
- Turnaround time normally 3 working days (FRoS)
- Total costs of kit £200
- Only additional cost is carrier transportation to Lab
- Can be ordered from PpTek or direct with FCC Labs UK



Tedlar bag & syringe for gas sample



Tenax Tube carrying sample



GCMS analysis equipment

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Kempston Laboratory  
Unit 14 Railton Road,  
Wolseley Business Park,  
Bedfordshire,  
United Kingdom, MK42 7PN  
E:kempston.laboratory@fccenvironment.co.uk



## LABORATORY ANALYSIS REPORT

**REPORT NUMBER** 28103  
**CUSTOMER**  
**CUSTOMER ADDRESS**



**DATE SAMPLES RECEIVED** 05/12/2012  
**DATE SAMPLES ANALYSED** 05/12/2012

| Sample Details               |                                 |                                 |                                 |
|------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Compound                     | Concentration mg/m <sup>3</sup> | Compound                        | Concentration mg/m <sup>3</sup> |
| Benzene                      | 3.2                             | Trimethylbenzene (1,2,4-)       | 1.6                             |
| Chloroethane                 | <0.2                            | Trimethylbenzene (1,3,5-)       | 1.0                             |
| Dichloroethane (1,1-)        | 0.1                             | Vinyl Chloride                  | <0.2                            |
| Dichloroethane (1,2-)        | 0.8                             | Alpha pinene*                   | 17.9                            |
| Dichloroethane (1,1-)        | <0.02                           | Limonene*                       | 32.4                            |
| Dichloroethane (cis-1,2-)    | 0.3                             | Para cymene*                    | 21.2                            |
| Dichloroethane (trans-1,2-)  | 0.03                            | Dodecamethylcyclopentasiloxane* | 18.8                            |
| Dichloromethane              | 4.3                             | Dodecamethyltetrasiloxane*      | <0.1                            |
| Ethylbenzene                 | 13.9                            | Dodecamethylcyclohexasiloxane*  | <0.1                            |
| m/b Xylene                   | 24.5                            | Dodecamethylpentasiloxane*      | <0.1                            |
| o Xylene                     | 7.8                             | Hexamethylcyclotrisiloxane*     | 0.2                             |
| Styrene                      | 2.4                             | Hexamethyltrisiloxane*          | 0.2                             |
| Tetrachloroethane (1,1,2,2-) | <0.02                           | Octamethylcyclotrisiloxane*     | 8.3                             |
| Tetrachloroethane            | 0.4                             | Octamethyltrisiloxane*          | <0.1                            |
| Tetrachloromethane           | 0.03                            | Tetramethylsilane*              | <0.1                            |
| Toluene                      | 22.8                            | Trimethylsilane*                | <0.1                            |
| Trichloroethane              | 0.4                             |                                 |                                 |
|                              |                                 | <b>Total Organic Silicon</b>    | <b>10.4</b>                     |

Sample tube analysed as received, calculations are based on the assumption that the customer has added 100ml of gas to the tube. All compounds were determined by SMA11m (ATDGCMS analysis). Any interpretations or opinions expressed in this report are outside the scope of UKAS accreditation.

\* Denotes not UKAS accredited

**DATE REPORTED** 07/12/2012

**REPORT AUTHORISED BY** Philip Bussingham (Laboratory Manager)

**SIGNATURE**

Registered Office  
900 Pavilion Drive  
Northampton Business Park  
Northampton NN4 7RG

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### Sample gas content report



PpTek Ltd is a member of the Renewable Power Association (RPA)



Dti Smart Award 2002



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