BEACON ENVIRONMENTAL

Global Leader in Soil Gas and Air Analyses

Call 1-410-838-8780 or visit us online at **beacon-usa.com**

AIR MONITORING WITH THE BEACON AIR SAMPLER

EASY-TO-USE PASSIVE SORBENT SAMPLER TO TARGET A BROAD RANGE OF COMPOUNDS

BENEFITS

- Time-weighted average concentrations
- Sample for hours, days, or weeks
- Target petroleum and chlorinated compounds, including Vinyl Chloride
- Air quality monitoring during remediation
- More accurate than other passive methods
- Sensitive – Detection limits in the ppt range
- Easy-to-use BeSure Sample Collection Kit™

APPLICATIONS

Vapor Intrusion Monitoring

Sewer Gas Sampling

Accurate and Easy-to-Use

Beacon can target a broad range of compounds using sorbent samplers to passively collect VOCs and SVOCs in indoor and ambient air following established U.S. EPA, ASTM and ISO methods, as well as other international protocols. Beacon has analyzed samples from every US state and more than 45 countries from across all 7 continents.

Beacon’s quantitative sorbent samplers are inexpensive to ship and are also provided at an overall lower price as compared to canister samples . Their ease of transport, simple sample collection procedures, and ability to report time-weighted average concentration data (ug/m3) with third-party validated uptake rates make them the preferred sampling method

Beacon Samplers have a 30-day hold time and are analyzed at Beacon’s accredited laboratory.

Beacon Environmental is ISO/IEC 17025:2017, DoD ELAP QSM 6.0 and NELAP accredited for the analysis of sorbent samples following US EPA Methods TO-17, TO-15, 8260D and 325B.

BEACON PASSIVE AIR SAMPLER REPORTING LIMITS

Limits of Detection (LODs) based on Exposure Periods and Third-Party Validated Uptake Rates. When required, lower detection limits can be reported.

COMPOUND	CAS	Uptake Rate (ml/min)	1 Day LOD (ug/m3)	3 Days LOD (ug/m3)	7 Days LOD (ug/m3)	14 Days LOD (ug/m3)
Vinyl Chloride	75-01-4	0.81	4.29	1.43	0.61	0.31
1,1-Dichloroethene	75-35-4	0.33	10.52	3.51	1.50	0.75
Methylene Chloride	75-09-2	0.35	9.92	3.31	1.42	0.71
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	0.89	3.90	1.30	0.56	0.28
trans-1,2-Dichloroethene	156-60-5	0.44	7.89	2.63	1.13	0.56
Methyl-t-butyl ether	1634-04-4	0.50	13.89	4.63	1.98	0.99
1,1-Dichloroethane	75-34-3	0.85	4.08	1.36	0.58	0.29
cis-1,2-Dichloroethene	156-59-2	0.53	6.55	2.18	0.94	0.47
Chloroform	67-66-3	0.35	9.92	3.31	1.42	0.71
1,2-Dichloroethane	107-06-2	0.56	6.20	2.07	0.89	0.44
1,1,1-Trichloroethane	71-55-6	1.05	3.31	1.10	0.47	0.24
Carbon Tetrachloride	56-23-5	0.43	8.16	2.72	1.17	0.58
Benzene	71-43-2	0.53	13.10	4.37	1.87	0.94
Trichloroethene	79-01-6	0.33	10.52	3.51	1.50	0.75
1,4-Dioxane	123-91-1	0.41	8.47	2.82	1.21	0.60
1,1,2-Trichloroethane	79-00-5	0.33	10.52	3.51	1.50	0.75
Toluene	108-88-3	0.40	17.36	5.79	2.48	1.24
1,2-Dibromoethane (EDB)	106-93-4	0.39	9.02	3.01	1.29	0.64
Tetrachloroethene	127-18-4	0.41	8.47	2.82	1.21	0.60
1,1,1,2-Tetrachloroethane	630-20-6	0.41	8.52	2.84	1.22	0.61
Chlorobenzene	108-90-7	0.85	4.08	1.36	0.58	0.29
Ethylbenzene	100-41-4	0.85	8.17	2.72	1.17	0.58
p & m-Xylene	108-38-3	0.88	7.89	2.63	1.13	0.56
o-Xylene	95-47-6	0.88	7.89	2.63	1.13	0.56
1,2,3-Trichloropropane	96-18-4	0.75	4.63	1.54	0.66	0.33
Isopropylbenzene	98-82-8	0.83	8.37	2.79	1.20	0.60
1,3,5-Trimethylbenzene	108-67-8	0.83	8.37	2.79	1.20	0.60
1,2,4-Trimethylbenzene	95-63-6	0.83	8.37	2.79	1.20	0.60
1,3-Dichlorobenzene	541-73-1	0.75	4.63	1.54	0.66	0.33
1,4-Dichlorobenzene	106-46-7	0.75	4.63	1.54	0.66	0.33
1,2-Dichlorobenzene	95-50-1	0.75	4.63	1.54	0.66	0.33
1,2,4-Trichlorobenzene	120-82-1	0.39	8.86	2.95	1.27	0.63
Naphthalene	91-20-3	0.80	4.34	1.45	0.62	0.31
1,2,3-Trichlorobenzene	87-61-6	0.39	8.86	2.95	1.27	0.63
2-Methylnaphthalene	91-57-6	0.76	4.57	1.52	0.65	0.33
TPH C5-C8		0.52	3,339	1,113	477	238
TPH C9-C15		0.71	2,103	701	300	150