



Passive sampling for VOC

IN GROUNDWATER

Passive sampling for volatile organic compounds allows for estimation of time-weighted average concentrations. Our passive sampler for VOC can be used for several types of water, although it is primarily designed for monitoring of groundwater wells. It provides an easy and efficient way to perform field work. The recommended sampling time is two weeks. After recovery of the sampler, an aliquot is transferred to a vial and analyzed using standard methods.



PS VOC, our method for passive sampling of volatile organic compounds, consists of a LDPE tube (approximately 35 cm long) with a polyethylene protective mesh on the outside. The tube is filled with deionized water through a fill nozzle and closed with a plug.

The appropriate deployment time is dependent on the time required by the sampler to equilibrate with ambient water and the time required for environmental disturbances caused by sampler deployment to return to ambient conditions. The rate at which deionized water in the sampler equilibrates with the ambient water depends on i.a. the type of compound and the water temperature. A minimum equilibrium time of two weeks is suggested for most field applications.

When the sampler is retrieved, a discharge tube is pressed into the membrane and two vials are filled (for OV-5a/6a, two 20 ml vials are used, for OV-5b/6b, one 40 ml vial with screw lid is used). The samples are then analyzed using standard methods.

Equipment:

PS VOC Sampler
(including LDPE membrane, deionized water in bottle, discharge tube and vials)

SEK 500

Suitable packages:

OV-5a BTEX	Price: SEK 1000
OV-5b BTEX (low LOQ)	Price: SEK 1200
OV-6a Chlorinated aliphatics	Price: SEK 1200
OV-6b Chlorinated aliphatics (low LOQ)	Price: SEK 1500
OV-6b + brominated aliphatics	Price: SEK 1550
OV-5b + OV-6b + brominated aliphatics	Price: SEK 1950

CONTACT INFORMATION

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