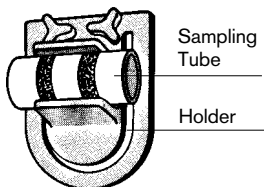


# Diffusion Sampler ORSA

Order No.  
67 28891 / 67 28919

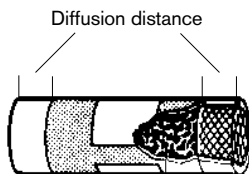


Transportation bottle  
with diffusion sampler



Sampling  
Tube

Holder



Diffusion distance

Adsorption layer

|   |   |  |
|---|---|--|
| <b>Adsorbate</b>                        | : | organic compounds which adsorb on activated charcoal by diffusion                      |
| <b>Sorption agent</b>                   | : | coconut shell coal   |
| <b>Adsorption layer</b>                 | : | 400 mg   |
| <b>Adsorption capacity</b>              | : | max. 10 mg, depends on substance   |
| <b>Diffusion rate</b>                   | : | 1 to 4 $\mu\text{g}/\text{ppm} \cdot \text{h}$ , depends on substance                  |
| <b>Sampling rate</b>                    | : | 5 to 10 mL/min, depends on substance   |
| <b>Response time</b>                    | : | approx. 2 s  |
| <b>Standard range of measurement</b>    | : | 0.1- to 3-times the limit value for most organic solvents for a sampling period of 8 h |
| <b>Sampling period</b>                  | : | 0.5 to 8 h for measurement in limit value range  |
| <b>Diffusion cross section:</b>         | : | 0.88 cm <sup>2</sup>   |
| <b>Diffusion distance</b>               | : | 0.5 cm   |
| <b>Diffusion barrier</b>                | : | acetate cellulose  |
| <b>Diffusion resistance coefficient</b> | : | 0.8  |
| <b>Apparatus constant</b>               | : | 0.71 cm <sup>-1</sup>  |

## Permissible ambient conditions

|                             |   |                    |
|-----------------------------|---|--------------------|
| <b>Temperature</b>          | : | 5 ... 40°C         |
| <b>Moisture</b>             | : | 5 ... 80 % at 20°C |
| <b>Atmospheric pressure</b> | : | below 1050 hPa     |
| <b>Air velocity</b>         | : | at least 1 cm/s    |

## Advice for sampling-taking

Air sampling is carried out in the previously determined measuring period which should be documented. After sample-taking the sampling tube is sent to the laboratory for analysis in the tightly sealed glass bottle.

## Further information

ORSA is available in 2 packing units:

|                                    |                     |
|------------------------------------|---------------------|
| ORSA 5 with 5 diffusion samplers   | Order code 67 28891 |
| ORSA 25 with 25 diffusion samplers | Order code 67 28919 |