

# Diffusion Sampler ORSA

Order No. 67 28 891 / 67 28 919 / 64 00 365

## Application Range

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

## Permissible ambient conditions

Temperature	5 to 40°C
Moisture	5 to 80 % at 20°C
Atmospheric pressure	below 1050 hPa
Air velocity	at least 1 cm/s

## Advice for sample-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.

## Note concerning the analysis

The enriched volatile organic compounds are analysed in accordance with the procedures recommended by BGIA, DFG, NIOSH, OSHA and HSE. For evaluation of the sampling tubes and systems please contact Dräger.



Transportation bottle with diffusion sampler

