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 0.1- to 3-times the limit value for of measurement 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 cm²
Diffusion distance 0.5 cm

Diffusion barrier acetate cellulose

Diffusion resistance

coefficient 0.8

Apparatus constant 0.71 cm⁻¹

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

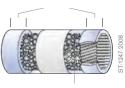
The enriched volatile organic compounds are analysed in accordance with the procedures recommended by BGIA, DFG, NIOSH, OSHA and HSE. For evaluation of the sampling tubes and systems please contact Dräger.



Transportation bottle with diffusion sampler



Diffusion distance



Adsorptions layer