



## Index

	Page
subject index	ii
how does the diffusive sampler work?	A1
why is <b>radiello</b> so special?	A3
the components of <b>radiello</b>	A5
the adsorbing cartridge	A5
the diffusive body	A5
the supporting plate	A5
the label	A5
how to use <b>radiello</b>	A6
before sampling: assembling the supporting plate	A6
on-field: to start the sampling	A6
after the sampling	A7
<b>radiello</b> maintenance	A7
<b>radiello</b> -ready-to-use	A8
accessories for <b>radiello</b>	B1
vertical adapter	B1
shelter	B1
how to assemble the shelter	B2
on-field temperature measurements	B3
calibration solution for H <sub>2</sub> S	B4
filtration kit	B4
calibration solutions for aldehydes	B4
calibration solutions for BTEX (CS <sub>2</sub> desorption)	B5
calibration solutions for VOCs in workplace environments	B5
calibration solutions for BTEX (thermal desorption)	B6
the spare parts of <b>radiello</b>	B6
empty cartridge	B6
barcode adhesive label	B6
clip	B6
tube	B6
strip	B6
aldehydes	C1
volatile organic compounds (VOCs) chemically desorbed with CS <sub>2</sub>	D1
volatile organic compounds (VOCs) thermally desorbed	E1
nitrogen and sulfur dioxides (NO <sub>2</sub> and SO <sub>2</sub> )	F1
ozone (O <sub>3</sub> )	G1
hydrogen sulfide (H <sub>2</sub> S)	H1
ammonia (NH <sub>3</sub> )	I1
hydrochloric acid (HCl)	J1
hydrofluoric acid (HF)	K1
anaesthetic gases and vapours	L1
phenol, methylphenol and dimethylphenol (thermally desorbed)	M1
index by code	Z1



## Subject index

- acetaldehyde, B4, **C1**  
acetone, **D2**, D6  
acetonitrile, **D2**  
acrylonitrile, **D2**  
acrolein, B4, **C1**, C3  
activated charcoal, A2, A3, B5, **D1**, D6, E1, L1  
activated charcoal, duration and storage, **D4**, **L2**  
adsorbing surface, **A1**  
adsorption isotherm, **E1**  
aldehydes, B4, **C1**  
aldehydes, analyses, **C3**  
aldehydes, duration and storage, **C2**  
aldehydes, exposure, **C2**  
aldehydes, interferences, **C4**  
aldehydes, sampling rates, **C1**  
ammonia, A8, **I1**  
amyl acetate, **D2**  
anaesthetic gases and vapors, **L1**  
axial diffusion, **A1**, A2  
back diffusion, **A3**, E1  
barcode label, **A5**, A6, **B6**  
barcode label, instruction, **A6**  
benzaldehyde, B4, **C1**  
benzene, A3, B5, B6, **D2**, D4, D5, **E3**, E4, E5  
benzyl alcohol, **D2**  
breakthrough, **A3**  
bromochloromethane, **D2**  
BTEX, desorbed with CS<sub>2</sub>, **D5**  
BTEX, thermally desorbed, **E4**  
butanal, B4, **C1**  
butanol, **D2**  
sec-butanol, **D2**  
*ter*-butanol, **D2**  
2-butoxyethanol, **D2**, D6, **E3**  
2-butoxyethyl acetate, **D2**  
butyl acetate, **D2**, D6, **E3**  
calibration, kit for BTEX thermally desorbed, **B6**  
calibration, kit for BTEX with CS<sub>2</sub>, **B5**  
calibration, kit for COVs workplace environments, **B5**  
calibration, solution for H<sub>2</sub>S, **B4**  
carbon tetrachloride, **D2**  
clip, A5, **B6**  
chlorobenzene, **D2**  
chloroform, **D2**  
components of radiello, **A5**  
COVs (see volatile organic compounds)  
m-chresol (2-methylphenol), **M1**  
o-chresol (3-methylphenol), **M1**  
p-chresol (4-methylphenol), **M1**  
cyanoferrate, **I1**  
cyclohexane, **D2**, D6, **E3**  
cyclohexanol, **D2**, D6  
cyclohexanone, **D2**, D6  
n-decane, **D2**, D6, **E3**  
desorption with CS<sub>2</sub>, **D1**  
diacetone alcohol, **D2**, D6  
1,4-dichlorobenzene, **D2**, **E3**, E5, E6  
1,2-dichloroethane, **D2**  
dichloromethane, **D2**, D6  
1,2-dichloropropane, **D2**, D6  
diethyl ether, **D2**  
diffusive body - blue, **A5**, A8, C1, F1, G1, H1, I1, K1, J1  
diffusive body: section, **A1**  
diffusive body - white, **A5**, A8, D1, E2, H1, I1, K1, J1, M1  
diffusive body - yellow, **A5**, A8, E1, E2  
diffusive surface, **A1**, A2, A3  
dimethyl disulfide, **E3**  
N,N-dimethylformamide, **D2**  
N,N-dimethyl-p-phenyldiammonium, **H1**  
2,3-dimethylphenol, **M1**  
2,5-dimethylphenol, **M1**  
2,6-dimethylphenol, **M1**  
3,5-dimethylphenol, **M1**  
3,5-dimethylphenol, **M1**  
2,4-dinitrophenylhydrazine, **C1**, C3  
1,4-dioxane, **D2**  
1,2-di(4-pyridyl)ethylene, **G1**  
n-dodecane, **D2**  
empty cartridge, **B6**  
end caps for glass tubes, **B6**  
ethanol, **D2**  
ethyl acetate, **D2**, D6  
ethylbenzene, B5, B6, **D2**, D5, **E3**, E4  
ethyl-*tert*-butyl ether (ETBE), **D2**  
2-ethyl-1-hexanol, **D2**  
2-etoxyethanol, **D2**, D6  
2-etoxyethyl acetate, **D2**  
1-etoxy-2-propanol, **D6**  
ethrane, **L1**  
ferric chloride, **H1**  
filtration kit, **B4**, C1, G1  
florisil, **C1**  
formaldehyde, B4, **C1**  
Freundlich, isotherm of -, **E1**  
glass tube, **B6**  
glutaric aldehyde, **C1**  
graphitised charcoal, A2, **E1**  
graphitised charcoal, duration and storage, **E3**  
graphitised charcoal, recovery, **E6**  
halothane, **L1**  
n-heptane, **D2**, D6, **E3**  
hexanal, B4, **C1**  
n-hexane, **D2**, D6, **E3**  
1-hexanol, **D2**  
hydrochloridric acid, A8, **J1**  
hydrofluoric acid, A8, **K1**  
hydrogen sulfide, A8, **H1**  
indophenol, **I1**  
isobutanol, **D2**, D6  
isobutyl acetate, **D2**, D6  
isoflurane, **L1**  
isooctane, **D2**, D6  
isopentanal, B4, **C1**, C3  
isopropanol, **D2**, D6



- isopropyl acetate, **D2, D6, E3**  
isopropylbenzene, **D2**  
limonene, **D2, E3**  
maintenance of radiello, **A7**  
MBTH, **G1**  
MBTH-azide, **G1**  
methanol, **D2, D6**  
2-methoxyethanol, **D2, E3**  
2-methoxyethyl acetate, **D2, E3**  
1-methoxy-2-propanol, **D2, D6, E3**  
1-methoxy-2-propyl acetate, **D2, D6**  
methyl acetate, **D2, D6**  
3-methyl-2-benzothiazolinone hydrazone (v. MBTH)  
methyl-*tert*-buthylether (MTBE), **D2**  
methylcyclohexane, **D2, D6**  
methylcyclopentane, **D2**  
methylene blue, **H1**  
methylethylketone, **D2**  
methylisobutylketone, **D2, D6**  
methyl metacrylate, **D2**  
2-methylpentane, **D2, D6**  
3-methylpentane, **D2, D6**  
molecular sieve, **L1**  
molecular sieve, duration and storage, **L2**  
naphthalene, **D2**  
NEDA, **F2**  
nitrogen dioxide, **A8, F1**  
nitrous oxide, **L1**  
n-nonane, **D2, D6, E3**  
n-octane, **D2, D6, E3**  
ozone, **A8, C4, G1**  
ozonide, **G1**  
ozonolysis, **G1**  
pentacyanonitrosylferrate (see cyanoferrate)  
pentane, **D2, D6**  
pentanal, **B4, C1**  
permeative body, **A5, L1**  
phenol, **I1, M1**  
 $\alpha$ -pinene, **D2, D6, E3**  
polycarbonate screw-thread cap for radiello-ready-to-use, **A8**  
polypropylene tube, **B6**  
propanal, **B4, C1**  
propyl acetate, **D2, D6**  
propylbenzene, **D2**  
4-pyridylaldehyde, **G1**  
radial diffusion, **A1, A2**  
reader for on-field thermometer, **B3**  
ready-to-use, radiello -, **A8**  
sampling, ending, **A7**  
sampling, preparing, **A6**  
sampling, sampling rate, definition, **A1**  
sampling, to start on-field, **A6**  
sevorane, **L1**  
snapping adapter, **A8**  
sodium hypochlorite, **I1**  
sterilization, **L2**  
styrene, **D2, D6, E3**  
sulphanilamide, **F2**  
shelter, **B1, B2**  
silica gel, **G1, J1**  
strip for shelter **B2, B6**  
sulfur dioxide, **A8, F1**  
supporting plate, **A5**  
Tenax TA, **M1**  
tetrachloroethylene, **D2, D6, E3**  
tetrahydrofuran, **D2**  
thermal desorption, **E1**  
thermal desorption, calibration, **E5, M4**  
thermal desorption, cartridge recovery, **E6**  
thermometer, **B3**  
thermometer, reader, **B3**  
thermometer, software, **B3**  
toluene, **B5, B6, D2, D5, E3, E4**  
1,1,1-trichloroethane, **D2, D6, E3**  
trichloroethylene, **D2, D6**  
triethanolamine, **F1**  
1,2,4-trimethylbenzene, **D2, D6, E3**  
n-undecane, **D2, D6, E3**  
using radiello, **A6**  
vertical adapter, **B1**  
volatile organic compounds, thermal desorption, **E1**  
volatile organic compounds, thermal desorption, analyses, **E4**  
volatile organic compounds, thermal desorption, sampling rates, **E1, E3**  
volatile organic compounds, extraction with CS<sub>2</sub>, **D1**  
volatile organic compounds, extraction with CS<sub>2</sub>, analyses, **D4**  
volatile organic compounds, extraction with CS<sub>2</sub>, sampling rates, **D1, D2**  
volatile organic compounds, extraction with CS<sub>2</sub>, retention times GC, **D6**  
m-xylene, **B5, B6, D2, D5, E3, E4**  
o-xylene, **B5, B6, D2, D5, E3, E4**  
p-xylene, **B5, B6, D2, D5, E3, E4**  
xylenol (see dimethylphenol)