SKC VOC Chek 575 Passive Samplers

Diffusive badge samplers for ppm-level organic vapours, ethylene oxide, styrene and methanol



The VOC Chek 575 is a light nylon badge with one layer of sorbent behind a nylon diffusion barrier. Sampling rates exist for over 300 compounds; eight OSHA methods name the sampler as an alternative to active sampling. For analysis, the sorbent transfers out of the body in one step.

350 mg	Over 300	15 min, 8 h	Up to 2 years
Sorbent, 575-001	Compounds with sampling rates	Validated sample times	Shelf life

Performance

Sampling rate [1]	Depends on the compound; validated sampling rates for over 300 compounds
Sample time	Validated for 15 min and 8 h exposure sampling 24 h validated for some compounds; 15 min short-term exposure limit (STEL) sampling for some compounds
Capacity	One sorbent layer with 8-hour capacity; one sampler and one analysis per 8-hour shift
Concentration range	Depends on the compound
Sorbent choice	Two carbon-based sorbents; the right sorbent for the compound avoids reverse diffusion
Further validations	575-001: siloxanes D4, D5, L2 and L3 575-002: halothane, isoflurane, desflurane, enflurane and sevoflurane
Methods	Named in eight OSHA diffusive methods; tested to NIOSH and other protocols, with validation reports

Mechanical

Housing	Nylon; the body is funnelled for an easy sorbent transfer
Diffusion barrier	Nylon, sonically welded to the sampler body
Cap and foam plug	Hold the sorbent in place and open for the analysis
Clip	Strong clip for wearing the sampler
Size	1.4 in (3.5 cm) diameter, 2.5 in (6.3 cm) length with clip, 0.6 in (1.5 cm) depth

Analysis and storage

Analysis	Solvent desorption and gas chromatography (GC), with a detector that suits the compound
Shelf life	Up to 2 years from the date of manufacture, below 39.2 °F (4 °C)
Storage	Varies

OSHA methods, active and passive

Benzene	Active 1005; passive 1005 with 575-002
Butyl acetates	Active 1009; passive 1009 with 575-002
MEK/MIBK	Methyl ethyl ketone/methyl isobutyl ketone: active 1004 (modified); passive 1004 with 575-002
Styrene	Active 89; passive 1014 with 575-006
Toluene	Active 111; passive 111 with 575-002
Trichloroethylene/ tetrachloroethylene	Active 1001; passive 1001 with 575-002
Trimethylbenzene	Active 1020; passive 1020 with 575-002
Xylenes/ethylbenzene	Active 1002; passive 1002 with 575-002

Samplers and sorbents

Sampler	For	Sorbent	Sorbent amount, mg
575-001	Organic vapours	Anasorb CSC charcoal, lot 2022, binder-free	350
575-002	Organic vapours	Anasorb 747	500
575-005	Ethylene oxide	Anasorb 747 treated with hydrobromic acid	500
575-006	Styrene	Anasorb 747 treated with tert-butyl catechol	500
575-007	Methanol	Anasorb 747; the sampler includes a diffusion barrier	500

Samplers

Order code	Description
575-001	Organic vapours, Anasorb CSC, 5 per pack
575-001A	Organic vapours, Anasorb CSC, 25 per pack
575-001B	Organic vapours, Anasorb CSC, 100 per pack
575-001C	Organic vapours, Anasorb CSC, 500 per pack
575-002	Organic vapours, Anasorb 747, 5 per pack
575-002A	Organic vapours, Anasorb 747, 25 per pack
575-002B	Organic vapours, Anasorb 747, 100 per pack
575-002C	Organic vapours, Anasorb 747, 500 per pack
575-005	Ethylene oxide, 5 per pack
575-005A	Ethylene oxide, 25 per pack
575-006	Styrene, 5 per pack
575-007	Methanol, 5 per pack

Order from Analyt-MTC with the order codes.

Desorption efficiency tubes, 10 per pack (note 2)

For 575-001 samplers	575-048
For 575-002 and 575-007 samplers	575-049
For 575-005 samplers	575-051
For 575-006 samplers	Ask Analyt-MTC

Notes

1. Sampling rates are validated per compound.
2. Each desorption efficiency tube is a single-section tube holding the sorbent type and amount of the matching sampler.

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