



575 Series Passive Sampler Rate/Selection Guide

SKC passive samplers are ready to use and provide a reliable and economical method for air sampling. Available for personal and area sampling, SKC offers samplers for a wide variety of chemical hazards to meet OSHA, NIOSH, and ASTM methods.

Validation for Compliance Sampling

Due to their design, passive (diffusive) samplers require extensive testing to ensure sample validity. Passive samplers can be validated to different protocols including OSHA, NIOSH, ANSI, and ASTM.

Validation for 575 Series Passive Samplers

SKC 575 Series Passive Samplers for organic vapors have been validated to the rigorous NIOSH and ANSI testing protocols. SKC established the following validation levels based on NIOSH protocol:

- **Full** - Passed all NIOSH Partial validation protocol and factorial study, including interfering compounds; most rigorous test; includes all parameters affecting sampling accuracy.

- **Bi-level** - A key member of a homologous series passed Full validation, all others passed Partial. Validity shown by Guild et al (reference available upon request).
- **Partial** - Passed NIOSH protocol for sampling rate, desorption efficiency, humidity effects, reverse diffusion, and storage stability (reactive compounds).
- **Calculated** - Uptake Rate = $D \times (A/L)$. "D" is a diffusion coefficient calculated from the Hirschfelder Equation. "A/L" is a constant based on the geometry of the sampler.

Validation for 24-hour Passive Sampling

Initially validated for eight-hour personal sampling only, SKC 575 Series Passive Samplers (575-001 and 575-002) have been validated for 24-hour sampling of specific indoor air pollutants in the 10 to 200 ppb concentration range.

SKC Passive Sampling Guide

The SKC Passive Sampling Guide is organized by chemical name for easy use. The guide contains complete specifications on SKC 575 Series Passive Samplers and a range of other passive-type samplers.

For compliance sampling, it is recommended that only those passive samplers with agency, Full, or Bi-level validation be used. Passive samplers with lower validation levels should be used only if verified by sorbent tube methods.

Chemical Hazard	Validation** Level	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		DE % \$	Cat. No.
			TWA (ppm)	CLG/STEL (ppm)		Min (min)	Max (hr)		
Acetone	Full	1303	1000		15.2 @	24	8	90.2	575-002
Acetone	Full	1303	1000		20.3 +	15	4	90.2	575-002
Acetone					21.1	24 Hour	24	88.1 *	575-002
Acetonitrile	Calculated		40		22.4	30	4	103	575-001 W
Acetonitrile	Calculated		40		22.4	30	4	108	575-002 W
Acrylonitrile	Full		2	10	20.4	15	8	81.0	575-002
Allyl alcohol	Calculated		2	4	18.4	45	4	76.0	575-002 W
Allyl chloride	Calculated		1	2 #	17.8	45	4	95.1	575-001
Allyl chloride	Calculated		1	2 #	17.8	45	4	101.3	575-002
n-Amyl acetate	Calculated		100		11.8	15	8	93.5	575-001
n-Amyl acetate	Calculated		100		11.8	15	8	96.0	575-002
Benzene	Full	1312	1	5	16.0	15	8	93.5	575-001
Benzene			1	5	12.0	24 Hour	24	93.0	575-001/2
Benzene	OSHA 1005		1	5	17.1	15	4	93.6	575-002
Benzotrifluoride (Trifluoromethylbenzene; OXSOL 2000)	Bilevel		100 ‡		13.3	15	8	106	575-001
Benzotrifluoride (Trifluoromethylbenzene; OXSOL 2000)	Bilevel		100 ‡		13.3	15	8	107	575-002
Benzyl acetate	Full				11.3	15	8	91.2	575-002 W
Benzyl chloride	Calculated		1		12.3	30	8	98.7	575-001
Benzyl chloride	Calculated		1		12.3	30	8	98.9	575-002
1-Bromopropane	Full				14.5	15	8	107	575-002
2-Butanone (Methyl ethyl ketone MEK)	Bilevel	1306	200		17.1	15	8	99.9	575-002
2-Butanone (Methyl ethyl ketone, MEK)	OSHA 1004		200		16.88	15	4	92.3	575-002
2-Butoxyethanol (Butyl CELLOSOLVE solvent)	Calculated		50		12.0	15	8	89.7	575-002
n-Butyl acetate	Full		150	200 #	12.3	15	8	90.4	575-001
n-Butyl acetate	Full		150	200 #	13.2	15	8	98.7	575-002
sec-Butyl acetate	Calculated		200		12.9	15	8	96.2	575-001
sec-Butyl acetate	Calculated		200		12.9	15	8	96.6	575-002
tert-Butyl acetate	Calculated		200		12.9	15	8	95.1	575-001
tert-Butyl acetate	Calculated		200		12.9	15	8	94.8	575-002
Butyl acrylate	Bilevel				11.7	30	8	95.0	575-002
n-Butyl alcohol	Calculated		100	50	15.5	15	8	94.0	575-001
n-Butyl alcohol	Calculated		100	50	15.5	15	8	100.0	575-002
sec-Butyl alcohol	Calculated		150		15.6	15	8	93.0	575-001 W
sec-Butyl alcohol	Calculated		150		15.6	15	8	100.0	575-002 W
tert-Butyl alcohol	Full		100	150	15.8	15	8	84.0	575-002 W

Chemical Hazard	Validation Level**	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		DE % \S	Cat. No.
			TWA (ppm)	CLG/STEL (ppm)		Min (min)	Max (hr)		
Butyl CELLOSOLVE solvent (2-Butoxyethanol)	Calculated		50		12.0	15	8	89.7	575-002
tert-Butyl ethyl ether (Ethyl tert-butyl ether)	Bilevel	1356			13.1	30	8	101	575-001
n-Butyl glycidyl ether	Calculated		50		11.6	30	8	104	575-002
p-tert-Butyl toluene	Bilevel		10		10.4	15	8	100	575-001
Butyrolactone	Full				15.8	30	8	80.9	575-002
Carbon tetrachloride	Bilevel		10	25	14.1	30	8	98.3	575-001
delta-3-Carene	Partial				11.4	30	8	> 90	575-003
CELLOSOLVE acetate (2-Ethoxyethyl acetate)	Calculated		100		12.0	60	8	52.7*	575-001
CELLOSOLVE acetate (2-Ethoxyethyl acetate)	Calculated		100		12.0	60	8	95.4	575-002
CELLOSOLVE solvent (2-Ethoxyethanol)	Full		200		14.4	60	8	100.84	575-001
CELLOSOLVE solvent (2-Ethoxyethanol)	Full		200		14.4	60	8	111.22	575-002
1-Chloro-2-methyl benzene (Monochlorotoluene; OXSOL 10)	Bilevel		50 ‡		13.0	15	8	91.8	575-001/2
1-Chloro-4-(trifluoromethyl)benzene (Parachlorobenzotrifluoride; OXSOL 100)	Bilevel		25 ‡		11.8	15	8	102	575-001
1-Chloro-4-(trifluoromethyl)benzene (Parachlorobenzotrifluoride; OXSOL 100)	Bilevel		25 ‡		11.8	15	8	108	575-002
Chlorobenzene	Calculated		75		14.2	15	8	93.3	575-001
Chlorobenzene	Calculated		75		14.2	15	8	99.0	575-002
Chloroform	Bilevel			50 (C)	13.0	60	8	97.3	575-001
o-Chlorostyrene	Bilevel	1374			9.8	15	8	75.2	575-002
o-Chlorostyrene	Bilevel	1382			9.8	15	8	94.0	575-003
Cumene (Isopropyl benzene)	Bilevel		50		12.8	15	8	99.3	575-001
Cumene (Isopropyl benzene)	Bilevel		50		12.8	15	8	106	575-002
Cyclohexane	Bilevel		300		15.6	15	8	105	575-001
Cyclohexane	Bilevel		300		15.6	15	8	109	575-002
Cyclohexanol	Calculated		50		13.5	15	8	98.0	575-001 W
Cyclohexanol	Calculated		50		13.5	15	8	105	575-002 W
Cyclohexanone	Partial		50		15.1	15	8	88.6	575-003
Cyclohexene	Calculated		300		15.4	15	8	102	575-001
Cyclohexene	Calculated		300		15.4	15	8	106	575-002
n-Decane	Calculated				10.2	15	8	102	575-001
n-Decane	Calculated				10.2	15	8	104	575-002
Decyl alcohol	Full				9.6	15	8	97.3	575-002
Diacetone alcohol	Full		50		12.4	15	8	92.9	575-002
1,2-Dibromoethane (Ethylene dibromide)	Calculated		20	30	14.7	15	8	92.3	575-001
1,2-Dibromoethane (Ethylene dibromide)	Calculated		20	30	14.7	15	8	99.4	575-002
1,2-Dichloro benzene	Calculated			50	12.6	15	8	79.2	575-001
1,2-Dichloro benzene	Calculated			50	12.6	15	8	77.1	575-002
m-Dichloro benzene	Calculated			50	12.7	15	8	91.8	575-001
m-Dichloro benzene	Calculated			50	12.7	15	8	92.7	575-002
o-Dichloro benzene	Calculated			50	12.6	15	8	79.2	575-001
o-Dichloro benzene	Calculated			50	12.6	15	8	77.1	575-002
p-Dichloro benzene	Calculated		75		12.7	15	8	91.1	575-001
p-Dichloro benzene	Calculated		75		12.7	15	8	94.7	575-002
1,2-Dichloro ethane (Ethylene dichloride)	Bilevel		50	100	14.2	60	8	95.8	575-001
1,2-Dichloro ethylene	Full		200		14.8	15	8	97.1	575-001
1,2-Dichloro propane (Propylene dichloride)	Bilevel		75		14.3	15	8	97.7	575-001
cis-1,3-Dichloropropene					15.2	30	8	91.4	575-001
cis-1,3-Dichloropropene					15.2	30	8	94.3	575-002
Diethyl ketone (3-Pentanone)	Full				14.8	15	8	83.9	575-001
Diethyl ketone (3-Pentanone)	Full				14.8	15	8	100.3	575-002
Diisobutyl ketone (DIBK)	Bilevel	1305	50		10.3	15	8	98.0	575-002
Dioxane	Full		100		16.0	15	4	65.6 *	575-001
Dioxane	Full		100		16.0	15	4	91.4	575-002
Dipropyl ketone (4-Heptanone)	Full				12.3	15	8	85.3	575-001
Dipropyl ketone (4-Heptanone)	Full				12.3	15	8	112	575-002
Dipropylene glycol methyl ether	Calculated		100	150 #	10.8	15	8	84.3	575-002
1-Dodecanol	Bilevel				8.7	15	8	107.5	575-001
1-Dodecanol	Bilevel				8.7	15	8	103	575-002
Dodecyl alcohol (Lauryl alcohol)	Bilevel				8.7	15	8	107.5	575-001
Dodecyl alcohol (Lauryl alcohol)	Bilevel				8.7	15	8	103	575-002
Ethanol (Ethyl alcohol)	Calculated		1000		20.9	15	4	99 •	575-002
2-Ethoxyethanol (CELLOSOLVE solvent)	Full		200		14.4	60	8	100.84	575-001
2-Ethoxyethanol (CELLOSOLVE solvent)	Full		200		14.4	60	8	111.22	575-002
2-Ethoxyethyl acetate (CELLOSOLVE acetate)	Calculated		100		12.0	60	8	52.7*	575-001
2-Ethoxyethyl acetate (CELLOSOLVE acetate)	Calculated		100		12.0	60	8	95.4	575-002
Ethyl acetate	Bilevel		400		13.1	15	8	92.8	575-001
Ethyl acetate	Bilevel		400		14.4	15	8	100	575-002
Ethyl acrylate	Bilevel		25		13.7	15	8	94.2	575-002
Ethyl alcohol (Ethanol)	Calculated		1000		20.9	15	4	99 •	575-002
Ethyl amyl ketone	Full		25		11.4	15	8	87.54	575-001
Ethyl amyl ketone	Full		25		11.4	15	8	110.7	575-002
Ethyl benzene	Bilevel		100		12.9	15	6	100	575-001
Ethyl benzene	Bilevel		100		12.9	15	6	104	575-002
Ethyl benzene	OSHA 1002		100		13.83 TM	15	8	99.1	575-002
Ethyl butyl ketone (3-Heptanone)	Full		50		12.3	15	8	87.9	575-001
Ethyl butyl ketone (3-Heptanone)	Full		50		12.3	15	8	103.4	575-002
Ethyl CELLOSOLVE solvent (2-Ethoxyethanol)	Full		200		14.4	60	8	111.22	575-002
Ethyl methacrylate	Full				13.1	15	8	84.7	575-001
Ethyl methacrylate	Full				13.1	15	8	104	575-002
Ethyl tert-butyl ether (tert-butyl ethyl ether)	Bilevel				13.1	30	8	101	575-001
Ethylene dibromide (1,2-Dibromo ethane)	Calculated		20	30	14.7	15	8	92.3	575-001
Ethylene dibromide (1,2-Dibromo ethane)	Calculated		20	30	14.7	15	8	99.4	575-002
Ethylene dichloride (1,2-Dichloro ethane)	Bilevel		50	100	14.2	60	8	95.8	575-001
Ethylene oxide	Full	1543	1	5 EL	21.99	15	8	102	575-005
Heptane	Bilevel		500		13.9	15	8	105	575-001
Heptane	Bilevel		500		13.9	15	8	108	575-002

Chemical Hazard	Validation** Level	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		DE % §	Cat. No.	
			TWA (ppm)	CLG/STEL (ppm)		Min (min)	Max (hr)			
4-Heptanone (Dipropyl ketone)	Full				12.3		15	8	85.3	575-001
4-Heptanone (Dipropyl ketone)	Full				12.3		15	8	112	575-002
3-Heptanone (Ethyl butyl ketone)	Full				12.3		15	8	87.9	575-001
3-Heptanone (Ethyl butyl ketone)	Full				12.3		15	8	103.4	575-002
Hexane			500		17.3		24 Hour	24 Hour	92.1	575-001/2
n-Hexane	Bilevel		500		14.3		15	8	100	575-001
n-Hexane	Bilevel		500		14.3		15	8	112	575-002
Hexone (Methyl isobutyl ketone MIBK)	Bilevel	1304	100		13.5		15	8	94.6	575-002
Hexone (Methyl isobutyl ketone, MIBK)	OSHA 1004				13.62		15	4	92.9	575-002
Isopropanol (Isopropyl alcohol)	Calculated		400	500 #	17.8		15	4	47.3 *	575-001
Isopropanol (Isopropyl alcohol)	Calculated		400	500 #	17.8		15	4	75.0	575-002
Isopropyl acetate	Calculated		250		14.1		15	8	88.5	575-001
Isopropyl acetate	Calculated		250		14.1		15	8	101	575-002
Isopropyl alcohol (Isopropanol)	Calculated		400	500 #	17.8		15	4	47.3 *	575-001
Isopropyl alcohol (Isopropanol)	Calculated		400	500 #	17.8		15	4	75.0	575-002
Isopropyl benzene (Cumene)	Bilevel		50		12.8		15	8	99.3	575-001
Isopropyl benzene (Cumene)	Bilevel		50		12.8		15	8	106	575-002
Mesitylene (1,3,5-Trimethylbenzene)	Calculated				12.1		15	8	93.6	575-001
Mesitylene (1,3,5-Trimethylbenzene)	Calculated				12.1		15	8	96.0	575-002
1-Methoxy-2-propanol	Full				14.6		15	8	102	575-002
2-Methoxyethanol (Methyl CELLOSOLVE solvent)	Calculated		25		16.1		60	4	94.7 P	575-001
2-Methoxyethanol (Methyl CELLOSOLVE solvent)	Calculated		25		16.1		60	4	91.1 P	575-002
Methyl acrylate	Full		10 a		15.7		15	8	94.3	575-002
Methyl CELLOSOLVE acetate (ethylene glycol monomethyl ether acetate)	Calculated		25		13.1		15	8	43.8*	575-001
Methyl CELLOSOLVE acetate (ethylene glycol monomethyl ether acetate)	Calculated		25		13.1		15	8	92.4	575-002
Methyl CELLOSOLVE solvent (2-Methoxyethanol)	Calculated		25		16.1		60	4	94.7 P	575-001
Methyl CELLOSOLVE solvent (2-Methoxyethanol)	Calculated		25		16.1		60	4	91.1 P	575-002
Methyl chloroform (1,1,1-trichloroethane)	Bilevel		350		14.1		15	8	99.9	575-001
Methyl chloroform (1,1,1-trichloroethane)	Bilevel		350		17.3		24 Hour	24 Hour	102.2	575-001/2
Methyl cyclohexane	Bilevel		500		14.2		15	8	106	575-001
tert-amyl Methyl ether (Methyl tert-amyl ether)	Bilevel	1355			13.1		30	8	99.0	575-001
Methyl ethyl ketone (MEK)	OSHA 1004		200		16.88		15	4	92.3	575-002
Methyl ethyl ketone (MEK 2-Butanone)	Bilevel	1306	200		17.1		15	8	99.9	575-002
Methyl isobutyl ketone (MIBK)	OSHA 1004				13.62		15	4	92.9	575-002
Methyl isobutyl ketone MIBK (Hexone)	Bilevel	1304	100		13.5		15	8	94.6	575-002
Methyl methacrylate (MMA)	Bilevel	1308	100		13.1		15	8	100	575-002
Methyl propyl ketone (2-Pentanone)	Calculated		200	250	15.7		15	8	68.1*	575-001
Methyl propyl ketone (2-Pentanone)	Calculated		200	250	15.7		15	8	92.6	575-002
alpha-Methyl styrene	Bilevel	1359		100 (C)	12.6		15	8	95.7	575-002
alpha-Methyl styrene	Bilevel	1373		100 (C)	12.6		15	8	94.0	575-003
Methyl t-butyl ether (MTBE)	Full	1352			13.6		15	8	97.9	575-001
Methyl tert-amyl ether (tert-amyl methyl ether)	Bilevel	1355			13.1		30	8	99.0	575-001
1-Methylcyclohexanol	Full		100		12.5		15	8		575-001
1-Methylcyclohexanol	Full		100		12.5		15	8		575-002
Methylene chloride	Full	1323	25	125	16.0		15	4	96.1	575-001MC
Methylene chloride	Full	1323	25	125	14.7		241	8 p	96.1	575-001MC
Monochlorotoluene (1-Chloro-2-methyl benzene; OXSOL 10)	Bilevel		50 ‡		13.0		15	8	91.8	575-001
Monochlorotoluene (1-Chloro-2-methyl benzene; OXSOL 10)	Bilevel		50 ‡		13.0		15	8	91.0	575-002
Nonane	Bilevel				10.6		15	8	103	575-001
Octane	Bilevel		500		12.7		15	8	106	575-001
Octane	Bilevel		500		12.7		15	8	110	575-002
Parachlorobenzotrifluoride (1-Chloro-4-(trifluoromethyl) benzene; OXSOL 100)	Bilevel		25 ‡		11.8		15	8	102	575-001
Parachlorobenzotrifluoride (1-Chloro-4-(trifluoromethyl) benzene; OXSOL 100)	Bilevel		25 ‡		11.8		15	8	108	575-002
Pentane	Full	1311	1000		14.9		15	8	105	575-001
3-Pentanone (Diethyl ketone)	Full		200		14.8		15	8	83.9	575-001
3-Pentanone (Diethyl ketone)	Full		200		14.8		15	8	100.3	575-002
2-Pentanone (Methyl propyl ketone)	Calculated		200		15.7		15	8	68.1*	575-001
2-Pentanone (Methyl propyl ketone)	Calculated		200		15.7		15	8	92.6	575-002
Perchloroethylene (Tetrachloroethylene)	Full		100	200 (C)	13.1		15	8	101	575-001
Perchloroethylene (Tetrachloroethylene)	OSHA 1001		100	200 (C)	13.06 TM		15	4	95.4	575-002
alpha-Pinene *	Partial				11.4		30	8	> 95	575-003
beta-Pinene *	Partial				11.4		30	8	> 80	575-003
n-Propanol (Propyl alcohol)	Calculated		200		17.6		15	4	87.3	575-001
n-Propanol (Propyl alcohol)	Calculated		200		17.6		15	4	97.8	575-002
n-Propyl acetate	Full		200		14.6		15	8	87.5	575-001
n-Propyl acetate	Full		200		14.6		15	8	101.1	575-002
Propyl bromide	Full				14.5		15	8	100	575-001
Propyl bromide	Full				14.5		15	8	107	575-002
Propylene dichloride (1,2-Dichloro propane)	Bilevel		75		14.3		15	8	97.7	575-001
Propylene glycol monomethyl ether	Full				14.6		15	8	102	575-002
Propylene glycol monomethyl ether acetate	Calculated				12.2		15	8		575-001
Propylene oxide	Calculated		100		19.9		15	4	98.0	575-001
Propylene oxide	Calculated		100		19.9		15	4	99.7	575-002
Pyridine	Full		5		16.3		15	8	62.11	575-001
Pyridine	Full		5		16.3		15	8	88.18	575-002
Styrene	Full	1315	100	200 (C)	13.7		15	8	86.3	575-002
Styrene	Full	1313	100	200 (C)	13.7		15	8	100	575-003
1,1,2,2-Tetrachloroethane	Bilevel		5		11.8		480 *	8	64.4 *	575-001
Tetrachloroethylene	OSHA 1001		100	200 (C)	13.06 TM		15	4	95.4	575-002
Tetrachloroethylene (Perchloroethylene)	Full		100	200 (C)	13.1		15	8	101	575-001
Tetrahydrofuran	Calculated		200		17.4		15	4	88.8	575-001
Tetrahydrofuran	Calculated		200		17.4		15	4	99.0	575-002
Toluene	Bilevel		200	300 (C)	14.5		15	8	97.9	575-001
Toluene	Bilevel		200	300 (C)	14.2		24 Hour	24	129	575-001/2
Toluene	OSHA 111		200	300 (C)	14.9 TM		10	4	97.0	575-002

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1,1,2-Trichloroethane	Bilevel		10		12.5	15	8	96.7	575-001
1,1,1-Trichloroethane (Methyl chloroform)	Bilevel			350 #	14.1	15	8	99.9	575-001
1,1,1-Trichloroethane (Methyl chloroform)				350 #	17.3	24 Hour	24 Hour	102.2	575-001/2
Trichloroethylene	Full		100	200 (C)	14.9	15	8	102	575-001
Trichloroethylene	OSHA 1001		100	200 (C)	14.26™	15	4	97.5	575-002
Trichloromethylbenzene (Benzotrifluoride; OXSOL 2000)	Bilevel		100 ‡		13.4	15	8	106	575-001
Trichloromethylbenzene (Benzotrifluoride; OXSOL 2000)	Bilevel		100 ‡		13.4	15	8	107	575-002
1,2,3-Trichloropropane	Bilevel		50		11.9	15	8	98.1	575-001
1,2,4-Trimethylbenzene	Full		25 ∂		12.1	15	8	88.4	575-001
1,2,4-Trimethylbenzene	Full		25 ∂		12.1	15	8	88.9	575-002
1,3,5-Trimethylbenzene (Mesitylene)	Calculated		25 ∂		12.1	15	8	93.6	575-001
1,3,5-Trimethylbenzene (Mesitylene)	Calculated		25 ∂		12.1	15	8	96.0	575-002
Vinyl acetate	Full			4 (C) #	16.3	30	8	92	575-002
Vinylidene chloride	Bilevel		LFC á		12.3	60	8	95.2	575-001
m-Xylene	Bilevel		100		12.5	15	8	96.6	575-001
m-Xylene			100		17.8	24 Hour	24	91.1	575-001/2
m-Xylene	Bilevel		100		12.5	15	8	101	575-002
m-Xylene	OSHA 1002		100		13.82™	15	8	96.1	575-002
o-Xylene	Bilevel		100		11.9	15	8	91.0	575-001
o-Xylene			100		12.8	24 Hours	24	101	575-001
o-Xylene	OSHA 1002		100		14.24™	15	8	89.4	575-002
p-Xylene	Bilevel		100		12.8	15	8	95.6	575-001
p-Xylene			100		16.0	24 Hours	24	91.1	575-001/2
p-Xylene	Bilevel		100		12.8	15	8	103	575-002
p-Xylene	OSHA 1002		100		13.94™	15	8	95.3	575-002

* Lower than the NIOSH-accepted guideline
NIOSH Short-Term Exposure Limit (STEL)
∞ Depends on detector sensitivity
‡ NIOSH Recommended Exposure Limit (REL)
∅ Occidental Chemical corporate exposure limits
≈ Valid for PEL samples >4 hours duration. If more than 1000 ppm of other contaminants are present reduce max. sample time to 4 hours
† OSHA construction industry standards
Δ Agency standards for OSHA listings represent the OSHA PELs reported in 29 CFR 1910.1000 part 1910, section 1000.

Ω Data with other compounds indicate that Anasorb 747 (575-002) might be better for this compound. Activated charcoal (575-001) would also be acceptable.
† Validated by Swedish National Institute of Working Life to meet limit values in Sweden (150 mg/m³ each compound).
§ The values given for the desorption efficiency were obtained in SKC Inc. laboratories. Call SKC for details on the desorption solvent used. Values obtained by other workers may differ from these by at least the precision of the analysis.
√ Valid for STEL samples up to 4 hours duration

** In accordance with ASTM D6346-98 and ANSI 104-1998 standards, use of samplers outside the range of conditions used in these validation tests does not assure accurate results and is not recommended. It is the user's responsibility to determine whether the conditions of the sampling site fall within the range tested. For bi-level validations, it can be assumed that the applicable range is that used for testing the lower member of the homologous series.
♣ Sampling rate generated by OSHA SL Tech Center. SKC in-house validation produced a similar sampling rate. SKC recommends using the OSHA rate for compliance sampling.

References:

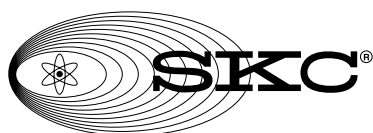
- L. V. Guild, K. H. Myrnel, G. Myers and D. F. Dietrich, "Bi-Level Passive Monitor Validation: A Reliable Way of Assuring Sampling Accuracy for A Larger Number of Related Chemical Hazards," Appl. Occup. Environ. Hyg., May 1992, pp. 310-317 (copies available from SKC).
- M. Harper, C. O'Lear, and A.A. Fiore, "Determination of Gasoline Oxygenates in Air Using a Diffusive Sampler" Analyst, 121, 1996 pp 1265-1268.
- K. Eriksson, J.O. Levin, M. Rhèn, and R. Lindahl, "Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes" Analyst, 119, 1994, pp. 85-88.
- M. Harper, and A. A. Fiore, "Determination of Methyl tert-Butyl Ether in Air Using a Diffusive Sampler," Appl. Occup. Environ. Hyg., July 1995, pp. 616-619 (copies available from SKC).

For a listing of AIHA Accredited Laboratories analyzing SKC Validated Passive Samplers, visit www.skcinc.com and click on Laboratories for Analysis Instructions.

Ordering Information

See Passive Sampler Selection Guide on pages 1-4 to determine the passive sampler for the compound of interest.

Passive Sampler for:	Sorbent	Cat. No.	Qty.
Organic vapors	Charcoal, 350 mg	575-001	5
		575-001A	25
Organic vapors	Anasorb 747, 500 mg	575-002	5
		575-002A	25
Organic vapors	Anasorb 727, 300 mg	575-003	5
Methylene chloride	Charcoal, 350 mg	575-001MC	5
		575-001MCA	25
Ethylene oxide	Treated Anasorb PC, 500 mg	575-005	5
		575-005A	25
Desorption Shaker (115 V) with rack		226D-03K	ea
Tubes for Desorption Efficiency for 575-001		575-048	10



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