

VOC 575 Series Passive Samplers

Targeted Compounds

- Validated sampling rates
- Lightweight, miniature – convenient for workers to wear in any industry
- Easy to use and analyze

Siloxanes: D4, D5, L2, L3

- SKC validated method

VOC Chek 575 Passive Sampler

Cat. No. 575-001

See page 83 for ordering.

Anesthetic Gases

- Halothane, isoflurane, desflurane, enflurane, sevoflurane
- Easy wear for health care workers

VOC Chek 575 Passive Sampler

Cat. No. 575-002

See page 83 for ordering.

Ethylene Oxide (EtO)

- Hydrobromic acid-treated Anasorb 747 sorbent
- Fully validated for 15-min and 8-hr sampling

VOC Chek 575 Passive Sampler

Cat. No. 575-005

See page 83 for ordering.

Methanol

- Validated for 15-min and 8-hr sampling
- Ideal for the fracking industry

VOC Chek 575 Passive Sampler

Cat. No. 575-007

See page 83 for ordering.



Visit www.skcinc.com/reports for passive (diffusive) sampler validation reports.

Siloxanes Are Health and Equipment Hazards

Currently, air quality standards do not regulate siloxanes, and no state or federal promulgated methods exist for sampling and analysis. However, several non-agency methods exist to address known health and equipment issues. Siloxanes, such as octamethylcyclotetrasiloxane (D4), pose health hazards. The Globally Harmonized System (GHS) has classified D4 as suspected to cause reproductive toxicity. Recently, the European Chemical Agency (ECHA) added D4, D5, and D6 to its Candidate List of Substances of Very High Concern (SVHC). These persistent, bioaccumulative, and toxic siloxanes are contained in cleaners, polishes, waxes, cosmetics, and personal care products. In landfills, siloxanes volatilize into biogas. When biogas is combusted, siloxanes convert to sand that then becomes deposited in combustion equipment and causes failure.

VOC Chek 575 Series Selection Guide ppm-Level Sampling of Organic Vapors

SKC VOC Chek 575 Series Passive Samplers are available with sorbents such as activated carbon and Anasorb 747 that strongly retain the collected compounds and require solvent extraction for laboratory analysis.

Use the following guide to locate target compounds and get an overview of critical sampling parameters along with the SKC catalog number of the recommended SKC VOC Chek 575 Series Passive Sampler.

Validation Levels

See the Validation Level column in this guide to determine the level of scientific testing. For online research reports, visit the online Passive Sampling Guide at www.skinc.com/samplingguide/passive and search the compound of interest; research reports are linked in the individual guide entries.

Full – Stringent NIOSH testing protocol has been applied to verify sampler desorption efficiency, sampling rate, capacity, and the effects of relative humidity, temperature, concentration, reverse diffusion, and storage on accuracy.

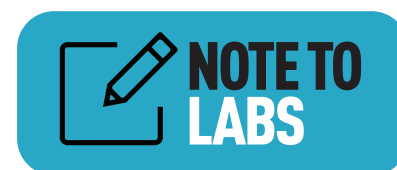
Bilevel – NIOSH testing protocol has been applied to the most volatile member of a related (homologous) series of chemicals; therefore, related less volatile series members require only partial validation (*described below*) to achieve the same level of sampling accuracy. See *Guild et al.* (<http://doi.org/cjzqd7>) or request a copy from SKC.

Partial – NIOSH testing protocol has been applied to verify sampling rate, desorption efficiency, and storage stability.

(Not validated) Calculated – This calculation of a sampling or uptake rate uses the diffusion coefficient of a specific chemical (D) and the cross-sectional area (A) and length (L) of the sampler's diffusion path (based on sampler geometry).

OSHA – Sampler has been validated by OSHA and is referenced in a published OSHA method.

Note: If using a 575-001 or -002 sampler in place of the specific 575 sampler listed in the *SKC VOC Chek 575 Cat. No.* column for a chemical hazard, a sampling rate with **Full, Bilevel, or Partial** validation level becomes a **non-validated Calculated rate**. The non-validated sampler can be used but desorption efficiency, reverse diffusion, and storage would need to be determined.



SKC Universal Desorption Solvent

Save money with this single-solvent option. SKC Universal D-solvent (10% 1-propanol in CS₂) simplifies desorption of polar compounds as efficiently as a solvent mix, but without the expense. SKC continues to add more compounds to its Universal D-solvent list. Visit skinc.com/samplingguides, select Passive Sampling Guides, and enter search criteria for the compound of interest.



Chemical Hazard	Validation Level	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		Analytical Method	DE %		SKC VOC Chek 575 Cat. No.
			TWA (ppm)	C/STEL (ppm)		Min (min)	Max (hrs)		Std. §	Universal	
Acetic acid	Calculated			15 #	19.6			GC-FID	99.2		575-001
Acetic acid	Calculated			15 #	19.6			GC-FID	107.9		575-002
Acetoin (acetyl methyl carbinol)	Calculated				14.9			GC-FID			575-001 or 575-002
Acetone	Full	1303			15.2	60 ≈	8	GC-FID	90.2	105.0	575-002
Acetonitrile	Calculated			40	22.4			GC-FID	103		575-001
Acetonitrile	Calculated			40	22.4			GC-FID	108	99.4	575-002
Acetylacetone	Calculated				14.3			GC-FID			575-001 or 575-002
Acetyl methyl carbinol (acetoin)	Calculated				14.9			GC-FID			575-001 or 575-002
Acrylonitrile	Calculated			10 C	20.4	2.5 hrs	8	GC-FID			575-001
Acrylonitrile	Partial			10 C	20.4	2.5 hrs	8	GC-FID	81		575-002
Adiponitrile	Calculated				11.9			GC-FID			575-001 or 575-002
Allyl alcohol	Calculated			4 #	18.4			GC-FID	64		575-001
Allyl alcohol	Calculated			4 #	18.4			GC-FID	76		575-002
Allyl chloride	Calculated			2 #	17.8			GC-FID	95.1		575-001
Allyl chloride	Calculated			2 #	17.8			GC-FID	101.3		575-002
n-Amyl acetate	Calculated				11.7			GC-FID	93.5		575-001
n-Amyl acetate	Calculated				11.7			GC-FID	96		575-002
sec-Amyl acetate (2-pentyl acetate)	Calculated				11.8			GC-FID			575-001 or 575-002
n-Amyl alcohol	Calculated				13.9			GC-FID	87.3		575-001
n-Amyl alcohol	Calculated				13.9			GC-FID	100.6		575-002
t-Amyl methyl ether (methyl tert-amyl ether)	Bilevel	1355			13.1	30	8	GC-FID	99		575-001
Aniline	Calculated				14.2			GC-FID			575-001 or 575-002
Benzene	Full	1312		5	16.0	15	8	GC-FID	94		575-001
Benzene	OSHA 1005			5	17.0	15	8	GC-FID	93.6	96	575-002
Benzophenone	Calculated				9.3			GC-FID			575-001 or 575-002
Benzotrifluoride (trifluoromethyl benzene; OXSOL 2000)	Bilevel				13.3	15	8	GC-FID	106		575-001
Benzotrifluoride (trifluoromethyl benzene; OXSOL 2000)	Bilevel				13.3	15	8	GC-FID	107		575-002
Benzyl acetate	Calculated				11.3			GC-FID	91.2		575-002
Benzyl Alcohol	Calculated				12.5			GC-FID			575-001 or 575-002
Benzyl chloride	Calculated			1 C	12.9			GC-FID	98.7		575-001
Benzyl chloride	Calculated			1 C	12.9			GC-FID	98.9		575-002
Bifenthrin	Calculated				6.2			GC-FID			575-001 or 575-002
Bromobenzene	Calculated				13.8			GC-FID			575-001 or 575-002

See page 244 for abbreviations.

VOC Chek 575 Passive Samplers

Selection Guide

Chemical Hazard	Validation Level	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		Analytical Method	DE %		SKC VOC Chek 575 Cat. No.
			TWA (ppm)	C/STEL (ppm)		Min (min)	Max (hrs)		Std. §	Universal	
Bromodichloromethane (dichlorobromomethane)	Calculated				16.1			GC-FID			575-001 or 575-002
Bromoethane (ethyl bromide)	Calculated			250 #	18.5			GC-FID			575-001 or 575-002
Bromoform	Calculated				15.2			GC-FID			575-001 or 575-002
Bromomethane (methyl bromide)	Calculated			20 C	22.1			GC-FID			575-001 or 575-002
1-Bromopropane (propyl bromide)	Full	1740			14.4	30	8	GC-FID	100		575-001
1-Bromopropane (propyl bromide)	Full	1740			14.7	30	8	GC-FID	107		575-002
1,3-Butadiene	Calculated			5	19.6			GC-FID			575-001 or 575-002
n-Butane	Calculated				18.1			GC-FID			575-001 or 575-002
n-Butanol (n-butyl alcohol)	Calculated			50 #	15.5			GC-FID	94		575-001
n-Butanol (n-butyl alcohol)	Calculated			50 #	15.5			GC-FID	100	101.6	575-002
2-Butanol (sec-butyl alcohol)	Calculated			150 #	15.6			GC-FID	93		575-001
2-Butanol (sec-butyl alcohol)	Calculated			150 #	15.6			GC-FID	100	102.6	575-002
2-Butanone (methyl ethyl ketone, MEK)	Bilevel	1306			17.1	15	12	GC-FID	100		575-002
2-Butanone (methyl ethyl ketone, MEK)	OSHA 1004				16.88	15	8	GC-FID	92.3	96.4	575-002
2-Butoxyethanol (butyl CELLOSOLVE solvent)	Calculated				12			GC-FID			575-001
2-Butoxyethanol (butyl CELLOSOLVE solvent)	Calculated				12			GC-FID	89.7	102	575-002
2-Butoxy-2-ethanol	Calculated			50	12.05			GC-FID			575-001 or 575-002
n-Butoxy-2-propanol	Calculated				11.22			GC-FID			575-001 or 575-002
2-(Butoxyethoxy)ethyl acetate	Calculated				8.91			GC-FID			575-001 or 575-002
2-Butoxyethyl acetate	Calculated				10.43			GC-FID			575-001 or 575-002
n-Butyl acetate	OSHA 1009			200 #	13.07	15	8	GC-FID	99.2		575-002
n-Butyl acetate	Partial	1894		200 #	12.3	30	8	GC-FID	90.4		575-001
n-Butyl acetate	Partial	1894		200 #	13.2	30	8	GC-FID	98.7		575-002
sec-Butyl acetate	Calculated				12.8			GC-FID	96.2		575-001
sec-Butyl acetate	Calculated				12.8			GC-FID	96.6		575-002
sec-Butyl acetate	OSHA 1009				12.74	15	8	GC-FID	98.9		575-002
t-Butyl acetate	Calculated				12.7			GC-FID	95.1		575-001
t-Butyl acetate	Calculated				12.7			GC-FID	94.8		575-002
t-Butyl acetate	OSHA 1009				13.09	15	8	GC-FID	98.9		575-002
Butyl acrylate	Bilevel				11.7	30	8	GC-FID	95		575-002
t-Butyl alcohol	Calculated			150	15.8			GC-FID	84	103	575-002
n-Butyl alcohol (1-butanol)	Calculated			50 #	15.5			GC-FID	94		575-001
n-Butyl alcohol (1-butanol)	Calculated			50 #	15.5			GC-FID	100	101.6	575-002
sec-Butyl alcohol (2-butanol)	Calculated			150 #	15.6			GC-FID	93		575-001
sec-Butyl alcohol (2-butanol)	Calculated			150 #	15.6			GC-FID	100	102.6	575-002
t-Butyl benzene	Calculated				11.3			GC-FID		102	575-002
Butyl CELLOSOLVE acetate (ethylene glycol monobutyl ether acetate)	Calculated				10.4			GC-FID			575-001 or 575-002
Butyl CELLOSOLVE solvent (2-butoxyethanol)	Calculated				12.0			GC-FID			575-001
Butyl CELLOSOLVE solvent (2-butoxyethanol)	Calculated				12			GC-FID	89.7	102	575-002
Butyl diglycol (Diethylene glycol butyl ether)	Calculated				9.97			GC-FID			575-001 or 575-002
t-Butyl ethyl ether (ethyl tert-butyl ether)	Bilevel	1356			13.1	15	8	GC-FID	101		575-001
n-Butyl glycidyl ether	Calculated			5.6 ‡	11.6			GC-FID			575-001
t-Butyl methyl ether (methyl t-butyl ether, MTBE)	Full	1352			13.6	8.5	8	GC-FID	97.4		575-001
p-tert-Butyl toluene	Bilevel				10.4	15	8	GC-FID	100		575-001
n-Butylbenzene	Calculated				11.23			GC-FID	103		575-002
sec-Butylbenzene	Calculated				11.3			GC-FID			575-001 or 575-002
beta-Butyrol acetone	Calculated				16.6			GC-FID			575-001 or 575-002
gamma-Butyrolactone	Calculated				16.6			GC-FID	80.9		575-002
Camphene	Calculated				11.2			GC-FID			575-001 or 575-002
Camphor	Calculated				10.8			GC-FID	94.2		575-001
Camphor	Calculated				10.8			GC-FID	113		575-002
Carbolic acid (phenol)	Calculated			15.6 C	14.5			GC-FID			575-001 or 575-002
Carbon disulfide	Calculated			30	19.54			GC-FID			575-001 or 575-002
Carbon tetrachloride	Bilevel			25 C	14.1	30	8	GC-FID	98.3		575-001
Carene	Calculated				11.3			GC-FID			575-001 or 575-002
2-CELLOSOLVE acetate (2-ethoxyethyl acetate)	Calculated				12.1			GC-FID	95.4		575-002
1-Chloro-2-methyl benzene (monochlorotoluene; OXSOL 10)	Bilevel				13	15	8	GC-FID	91.8		575-001
1-Chloro-2-methyl benzene (monochlorotoluene; OXSOL 10)	Bilevel				13	15	8	GC-FID	91		575-002
1-Chloro-4-(trifluoromethyl)benzene (parachlorobenzotrifluoride; OXSOL 100)	Bilevel				11.8	15	8	GC-FID	102		575-001
1-Chloro-4-(trifluoromethyl)benzene (parachlorobenzotrifluoride; OXSOL 100)	Bilevel				11.8	15	8	GC-FID	108		575-002
Chlorobenzene	Partial	1838			14.41	15	8	GC-FID	87.6		575-002
Chlorobromomethane	Calculated				18.3			GC-FID	103		575-002
Chloroethane (ethyl chloride)	Calculated				20.02			GC-FID			575-001 or 575-002
Chloroform	Bilevel			50 C	13	60	8	GC-FID	97.3		575-001
Chloromethane (methylchloride)	Calculated				24.6			GC-FID			575-001 or 575-002
Chloroprene	Calculated				16.2			GC-FID			575-001 or 575-002
o-Chlorostyrene	Bilevel	1374			9.8	15	8	GC-FID	75.2		575-002
4-Chlorotoluene	Calculated				12.4			GC-FID			575-001 or 575-002
p-Cresol (4-Methyl phenol)	Calculated				13.1			GC-FID			575-001 or 575-002
m-Cresol (3-Methyl phenol)	Calculated				13.1			GC-FID			575-001 or 575-002
o-Cresol (2-Methyl phenol)	Calculated				13.2			GC-FID			575-001 or 575-002
Cumene (isopropyl benzene)	Bilevel				12.8	15	8	GC-FID	99.3		575-001
Cumene (isopropyl benzene)	Bilevel				12.8	15	8	GC-FID	106		575-002
Cyclohexane	Bilevel				15.6	15	8	GC-FID	105		575-001
Cyclohexane	Bilevel				15.6	15	8	GC-FID	109		575-002
Cyclohexanol	Calculated				13.5			GC-FID	98		575-001
Cyclohexanol	Calculated				13.5			GC-FID	105	89.6	575-002
Cyclohexanone	Partial				16.41	15	8	GC-FID	100		575-002
Cyclohexene	Calculated				15.4			GC-FID	102		575-001
Cyclohexene	Calculated				15.4			GC-FID	106		575-002
Cyclopentane	Calculated				16.8			GC-FID			575-001 or 575-002
p-Cymene (4-isopropyltoluene)	Calculated				11.3			GC-FID			575-001 or 575-002

See page 244 for abbreviations.

VOC Chk 575 Passive Samplers

Selection Guide

Chemical Hazard	Validation Level	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		Analytical Method	DE %		SKC VOC Chk 575 Cat. No.
			TWA (ppm)	C/STEL (ppm)		Min (min)	Max (hrs)		Std. %	Universal	
Decamethylcyclopentasiloxane (D5)	Partial	1891			5.66	15	8	GC-FID	99.0		575-001
Decamethyltetrasiloxane	Calculated				7.36			GC-FID			575-001 or 575-002
n-Decane	Partial				12.2			GC-FID	103	102	575-002
1-Decanol (decyl alcohol)	Calculated				9.6			GC-FID	97.3		575-002
Decyl alcohol (1-decanol)	Calculated				9.6			GC-FID	97.3		575-002
Desflurane	Partial	1893		2	13.8	30	4	GC-FID	94.3		575-002
Diacetone alcohol	Calculated				12.4			GC-FID	92.9	97.7	575-002
1, 2-Dibromo-3-chloropropane	Calculated				12.6			GC-FID	101.3		575-002
Dibromochloromethane	Calculated				15.6			GC-FID			575-001 or 575-002
1,2-Dibromoethane (ethylene dibromide)	Calculated			30	15.3			GC-FID	92.3		575-001
1,2-Dibromoethane (ethylene dibromide)	Calculated			30	15.3			GC-FID	99.4		575-002
1, 6-Dibromohexane (hexamethylene dibromide)	Calculated				10.7			GC-FID			575-001 or 575-002
Dibutyl phthalate (DBP)	Calculated				7.5			GC-FID			575-001 or 575-002
o-Dichlorobenzene (1,2-dichlorobenzene)	Partial			50 C	12.5	15	8	GC-FID	79.2		575-001
o-Dichlorobenzene (1,2-dichlorobenzene)	Partial	1875		50	12.5	15	8	GC-FID	77.1		575-002
m-Dichlorobenzene (1,3-dichlorobenzene)	Calculated				12.95			GC-FID	91.8		575-001
m-Dichlorobenzene (1,3-dichlorobenzene)	Calculated				12.95			GC-FID	92.7		575-002
p-Dichlorobenzene (1,4-dichlorobenzene)	Calculated				12.95			GC-FID	91.1		575-001
p-Dichlorobenzene (1,4-dichlorobenzene)	Calculated				12.95			GC-FID	94.7		575-002
1,3-Dichlorobenzene (m-dichlorobenzene)	Calculated				12.95			GC-FID	91.8		575-001
1,3-Dichlorobenzene (m-dichlorobenzene)	Calculated				12.95			GC-FID	92.7		575-002
1,2-Dichlorobenzene (o-dichlorobenzene)	Partial			50 C	12.5	15	8	GC-FID	79.2		575-001
1,2-Dichlorobenzene (o-dichlorobenzene)	Partial	1875		50 C	12.5	15	8	GC-FID	77.1		575-002
1,4-Dichlorobenzene (p-dichlorobenzene)	Calculated				12.95			GC-FID	91.1		575-001
1,4-Dichlorobenzene (p-dichlorobenzene)	Calculated				12.95			GC-FID	94.7		575-002
Dichlorobromomethane (bromodichloromethane)	Calculated				16.1			GC-FID			575-001 or 575-002
Dichlorodifluoromethane (Freon 12)	Calculated				18.6			GC-FID			575-001 or 575-002
1,1-Dichloroethane	Calculated				16.85			GC-FID			575-001 or 575-002
1,2-Dichloroethane (ethylene dichloride)	Bilevel			100	14.2	60	8	GC-FID	95.8		575-001
1,2-Dichloroethane (1,2-dichloroethylene)	Full				14.8	15	8	GC-FID	97.1		575-001
1,1-Dichloroethane (vinylidene chloride)	Bilevel				12.3	60	8	GC-FID	95.2		575-001
Dichloroethyl ether	Calculated			15 C	12.5			GC-FID			575-001 or 575-002
1,2-Dichloroethylene (1,2-dichloroethene)	Full				14.8	15	8	GC-FID	97.1		575-001
Dichloromethane (methylene chloride)	Full	1323		125	14.7	60 ≈	8	GC-FID	96		575-001
1,2-Dichloropropane (propylene dichloride)	Bilevel				14.3	15	8	GC-FID	97.7		575-001
1,1-Dichloropropene	Calculated				15.6			GC-FID			575-001 or 575-002
cis-1,3-Dichloropropene	Partial	1886			13.6	15	8	GC-FID	101		575-002
trans-1,3-Dichloropropene	Partial	1886			14.4	15	8	GC-FID	99.4		575-002
1,2-Dichlorotetrafluoroethane (Freon 114)	Calculated				15.3			GC-FID			575-001 or 575-002
Dicyclopentadiene	Calculated				11.8			GC-FID			575-001 or 575-002
Diesel	Calculated				11.2			GC-FID			575-001 or 575-002
Diethyl ether (ethyl ether)	Calculated				16.4			GC-FID			575-001 or 575-002
Diethylene glycol dibutyl ether	Calculated				8.3			GC-FID			575-001 or 575-002
Diethylene glycol butyl ether	Calculated				10.0			GC-FID			575-001 or 575-002
Diethyl ketone (3-pentanone)	Calculated				14.8			GC-FID	83.9		575-001
Diethyl ketone (3-pentanone)	Calculated				14.8			GC-FID	100.3		575-002
N,N-Diethyl-m-toluamide (DEET)	Calculated				9.2						
Diethylene glycol dimethyl ether (2-methoxyethyl ether)	Calculated				11.5			GC-FID			575-001 or 575-002
Diethylene glycol monobutyl ether	Calculated				9.97			GC-FID			575-001 or 575-002
Diethylene glycol monoethyl ether	Calculated				9.85			GC-FID			575-002
Diethylene glycol monoethyl ether acetate	Calculated				9.88			GC-FID			575-001 or 575-002
Diethylene glycol monomethyl ether (2-[2-methoxyethoxy] ethanol)	Calculated				11.3			GC-FID			575-001 or 575-002
Diisobutyl ketone (DIBK), (isovalerone)	Bilevel	1305			10.3	30	8	GC-FID	98.3		575-002
1,2-Dimethoxyethane (ethylene glycol dimethyl ether)	Calculated				14.7			GC-FID			575-001 or 575-002
Diisopropylbenzene	Calculated				9.9			GC-FID			575-001 or 575-002
Dimethoxymethane (methylal)	Calculated				17.1			GC-FID			575-001 or 575-002
Dimethyl adipate	Calculated				10.73			GC-FID			575-001 or 575-002
Dimethyl cellosolve	Calculated				14.67			GC-FID			575-001 or 575-002
Dimethyl disulfide	Calculated				15.4			GC-FID			575-001 or 575-002
2,5-Dimethyl hexane	Calculated				11.82			GC-FID			575-001 or 575-002
2,2-Dimethyl hexane	Calculated				11.86			GC-FID			575-001 or 575-002
2,2-Dimethyl pentane	Calculated				12.9			GC-FID			575-001 or 575-002
2,3-Dimethyl pentane	Calculated				12.8			GC-FID			575-001 or 575-002
2,4-Dimethyl pentane	Calculated				12.9			GC-FID			575-001 or 575-002
Dimethyl pentanedioate	Calculated				10.8			GC-FID			575-001 or 575-002
Dimethyl sulfide	Calculated				19			GC-FID			575-001 or 575-002
Dimethyl sulfoxide	Calculated				16.3			GC-FID			575-001 or 575-002
N,N-Dimethylacetamide	Calculated				14.4			GC-FID			575-001 or 575-002
N,N-Dimethylaniline	Calculated				12.14			GC-FID			575-001 or 575-002
2,2-Dimethylbutane (neohexane)	Calculated				14.2			GC-FID			575-001 or 575-002
trans-1,2-Dimethylcyclohexane	Calculated				12.4			GC-FID	106.1		575-001
N,N-Dimethylformamide (DMF)	Calculated				16.4			GC-FID	87.2		575-002
2,3-Dimethylpentane	Calculated				12.8			GC-FID			575-001 or 575-002
2,4-Dinitrophenylhydrazine	Calculated				10.6			GC-FID			575-001 or 575-002
1,4-Dioxane	Calculated				15.8			GC-FID	91.4		575-002
1,3-Dioxolane	Calculated				16.9			GC-FID			575-001 or 575-002
Di-N-octyl phthalate (DNOP)	Calculated				10.8			GC-FID			575-001 or 575-002
Diphenyl oxide (phenyl ether)	Calculated				10.4			GC-FID			575-001 or 575-002
Dipropyl ketone (4-heptanone)	Calculated				12.1			GC-FID	85.3		575-001
Dipropyl ketone (4-heptanone)	Calculated				12.1			GC-FID	112		575-002
Dipropylene glycol methyl ether	Calculated				10.8			GC-FID	84.3		575-002
1,2-Di(4-pyridyl)ethylene	Calculated				10.4			GC-FID			575-001 or 575-002

See page 244 for abbreviations.

VOC Chek 575 Passive Samplers

Selection Guide

Chemical Hazard	Validation Level	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		Analytical Method	DE %		SKC VOC Chek 575 Cat. No.	
			TWA (ppm)	C/STEL (ppm)		Min (min)	Max (hrs)		Std. §	Universal		
Dodecamethylcyclohexasiloxane	Calculated				6.75			GC-FID			575-001	or 575-002
Dodecane	Calculated				9.11			GC-FID			575-001	or 575-002
n-Dodecanol (lauryl alcohol)	Calculated				8.7			GC-FID	107.5		575-001	
n-Dodecanol (lauryl alcohol)	Calculated				8.7			GC-FID	103	103.8	575-002	
1-Dodecene	Calculated				9.29			GC-FID			575-001	or 575-002
1-Dodecyl alcohol (lauryl alcohol)	Calculated				8.7			GC-FID	107.5		575-001	
1-Dodecyl alcohol (lauryl alcohol)	Calculated				8.7			GC-FID	103	103.8	575-002	
Dodecyl methacrylate	Calculated				7.6			GC-FID			575-001	or 575-002
Enflurane (ethrane)	Partial	1893		2	13.8	30	4	GC-FID	101		575-002	
Epichlorohydrin	Calculated				16.4			GC-FID	88.2		575-002	
2,3-Epoxy-1-propanol (glycidol)	Calculated				17.8			GC-FID			575-001	or 575-002
2,3-Epoxypropyl methacrylate (glycidyl methacrylate)	Calculated				11.45			GC-FID			575-001	or 575-002
Ethanol (ethyl alcohol)	Partial	1876			20.3	15	8	GC-FID	99	103	575-002	
2-Ethoxyethanol	Calculated				14.4			GC-FID	100.8		575-001	
2-Ethoxyethanol	Calculated				14.4			GC-FID	111.2	101	575-002	
2-Ethoxyethyl acetate (2-CELLOSOLVE acetate)	Calculated				12.1			GC-FID	95.4		575-002	
Ethane (enflurane)	Partial	1893		2	13.8	30	4	GC-FID	101		575-002	
Ethyl acetate	Partial	1894			13.1	30	8	GC-FID	92.8		575-001	
Ethyl acetate	Partial	1894			14.1	30	8	GC-FID	100	101	575-002	
Ethyl acrylate	Bilevel				13.7	15	8	GC-FID	94.2		575-002	
Ethyl alcohol (ethanol)	Partial	1876			20.3	15	8	GC-FID	99	103	575-002	
Ethyl amyl ketone	Calculated				11.3			GC-FID			575-001	or 575-002
Ethyl benzene	Bilevel				12.9	15	6	GC-FID	100		575-001	
Ethyl benzene	Bilevel				12.9	15	6	GC-FID	104		575-002	
Ethyl benzene	OSHA 1002				13.83	15	8	GC-FID	99.1		575-002	
Ethyl bromide (bromoethane)	Calculated			250 #	18.5			GC-FID			575-001	or 575-002
Ethyl butyl ketone (3-heptanone)	Calculated				12.2			GC-FID	87.9		575-001	
Ethyl butyl ketone (3-heptanone)	Calculated				12.2			GC-FID	103.4		575-002	
Ethyl chloride (chloroethane)	Calculated				20.2			GC-FID			575-001	or 575-002
Ethyl cyanide	Calculated				18.61			GC-FID			575-001	or 575-002
Ethyl ether	Calculated				16.4			GC-FID			575-001	or 575-002
Ethyl-3-ethoxypropionate	Calculated				11.2			GC-FID			575-001	or 575-002
Ethyl formate	Calculated				17.8			GC-FID			575-001	or 575-002
2-Ethyl hexyl acetate	Calculated				9.8			GC-FID	99		575-002	
Bis(2-ethylhexyl) phthalate	Calculated				6.1			GC-FID			575-001	or 575-002
Ethyl lactate	Calculated				12.8			GC-FID			575-001	or 575-002
Ethyl methacrylate	Full				13.1	15	8	GC-FID	84.7		575-001	
Ethyl methacrylate	Full				13.1	15	8	GC-FID	104		575-002	
Ethyl propionate	Calculated				14			GC-FID			575-001	or 575-002
Ethyl tert-butyl ether (tert-butyl ethyl ether)	Bilevel	1356			13.1	15	8	GC-FID	101		575-001	
Ethylene dibromide (1,2-dibromoethane)	Calculated			30	15.3			GC-FID	92.3		575-001	
Ethylene dibromide (1,2-dibromoethane)	Calculated			30	15.3			GC-FID	99.4		575-002	
Ethylene dichloride (1,2-dichloroethane)	Bilevel			100 C	14.2	60	8	GC-FID	95.8		575-001	
Ethylene glycol	Calculated			100 mg/m ² C	17.44			GC-FID			575-001	or 575-002
Ethylene glycol diethyl ether	Calculated				12.27			GC-FID			575-001	or 575-002
Ethylene glycol dimethyl ether (1,2-dimethoxyethane)	Calculated				14.7			GC-FID			575-001	or 575-002
Ethylene glycol monobutyl ether acetate (butyl CELLOSOLVE acetate)	Calculated				10.4			GC-FID			575-001	or 575-002
Ethylene glycol monohexyl ether	Calculated				10.5			GC-FID			575-001	or 575-002
Ethylene glycol monomethyl ether acetate (methyl CELLOSOLVE acetate)	Calculated				12.9			GC-FID	92.4		575-001	or 575-002
Ethylene oxide	Full	1543		5 EL	21.2	15	8	GC-ECD	102		575-005	
2-Ethylhexanol	Calculated				10.93			GC-FID	93.7	109	575-002	
2-Ethyltoluene	Calculated				12.1			GC-FID	106		575-002	
3-Ethyltoluene	Calculated				12.1			GC-FID			575-001	
3-Ethyltoluene	Calculated				12.1			GC-FID	101		575-002	
4-Ethyltoluene	Calculated				12.1			GC-FID	91		575-002	
Eucalyptol	Calculated				10.5			GC-FID			575-001	or 575-002
Fluoranthene	Calculated				9.4			GC-FID			575-001	or 575-002
Freon 11 (trichlorofluoromethane)	Calculated				16.65			GC-FID			575-001	or 575-002
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	Calculated			1250 #	14.1			GC-FID			575-001	or 575-002
Freon 114 (1,2-dichlorotetrafluoroethane)	Calculated				15.3			GC-FID			575-001	or 575-002
Freon 12 (dichlorodifluoromethane)	Calculated				18.6			GC-FID			575-001	or 575-002
Furfuryl	Calculated				14.5			GC-FID			575-001	or 575-002
Gasoline	Calculated				13.84			GC-FID			575-001	or 575-002
Glutaric acid dimethyl ester	Calculated				11.5			GC-FID			575-001	or 575-002
Glycidol (2,3-epoxy-1-propanol)	Calculated				17.8			GC-FID			575-001	or 575-002
Glycidyl methacrylate (2,3-epoxypropyl methacrylate)	Calculated				11.45			GC-FID			575-001	or 575-002
Halothane	Full	1893			14.1	15	8	GC-FID	99.9		575-002	
n-Heptane	Bilevel				13.9	15	8	GC-FID	105		575-001	
n-Heptane	Bilevel				13.9	15	8	GC-FID	108		575-002	
4-Heptanone (dipropyl ketone)	Calculated				12.1			GC-FID	85.3		575-001	
4-Heptanone (dipropyl ketone)	Calculated				12.1			GC-FID	112.2		575-002	
3-Heptanone (ethyl butyl ketone)	Calculated				12.2			GC-FID	87.9		575-001	
3-Heptanone (ethyl butyl ketone)	Calculated				12.2			GC-FID	103.4		575-002	
2-Heptanone (methyl n-amyl ketone)	Calculated				12.2			GC-FID	99.8		575-002	
1-Heptene	Calculated				13.1			GC-FID			575-001	or 575-002
Hexachlorobutadiene	Calculated				10.5			GC-FID			575-001	or 575-002
Hexachloroethane	Calculated				11.5			GC-FID			575-001	or 575-002
Hexadecane	Calculated				7.7			GC-FID			575-001	or 575-002
Hexamethyldisiloxane (L2)	Partial	1892			9.98	15	8	GC-FID	102.9		575-001	
Hexamethylene dibromide (1,6-dibromohexane)	Calculated				10.7			GC-FID			575-001	
n-Hexane	Bilevel				14.3	15	8	GC-FID	100		575-001	

See page 244 for abbreviations.

VOC Chek 575 Passive Samplers

Selection Guide

Chemical Hazard	Validation Level	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		Analytical Method	DE %		SKC VOC Chek 575 Cat. No.
			TWA (ppm)	C/STEL (ppm)		Min (min)	Max (hrs)		Std. §	Universal	
n-Hexane	Bilevel				14.3	15	8	GC-FID	112		575-002
Hexanol (hexyl alcohol)	Calculated				12.64			GC-FID	92.9	97	575-002
2-Hexanone (methyl butyl ketone MBK)	Partial	1873			14.3	15	8	GC-FID	104	97.8	575-002
2-Hexene	Calculated				14.5			GC-FID			575-001 or 575-002
Hexone (methyl isobutyl ketone [MIBK])	Calculated				13.5	30	8	GC-FID			575-001 or 575-002
Hexone (methyl isobutyl ketone [MIBK])	Bilevel	1304			13.5	30	8	GC-FID	94.6		575-002
Hexone (methyl isobutyl ketone [MIBK])	OSHA 1004				13.62	30	8	GC-FID	92.9	99.5	575-002
sec-Hexyl acetate	Calculated				11.1			GC-FID			575-001 or 575-002
Hexyl alcohol (hexanol)	Calculated				12.64			GC-FID	92.9	97	575-002
Hexylene	Calculated				14.5			GC-FID			575-001 or 575-002
Hexylene glycol	Calculated		25 C		11.81			GC-FID			575-001 or 575-002
Hydrogen cyanide	Calculated				30.40			GC-FID			575-001 or 575-002
Iodomethane (methyl iodide)	Calculated				18.7			GC-FID			575-001 or 575-002
Isoamyl acetate	Calculated				11.9			GC-FID	91.9		575-001
Isoamyl acetate	Calculated				11.9			GC-FID	108		575-002
Isoamyl alcohol	Calculated		125 #		13.9			GC-FID			575-001 or 575-002
Isobutyl acetate	Calculated				12.8			GC-FID	106		575-002
Isobutyl acetate	OSHA 1009				13.16	15	8	GC-FID	99.1		575-002
Isobutyl acrylate	Calculated				12.2			GC-FID			575-001 or 575-002
Isobutyl alcohol	Calculated				15.6			GC-FID	93.0		575-001
Isobutyl alcohol	Calculated				15.6			GC-FID	100.0	100	575-002
Isoflurane	Full	1893			13.2	15	8	GC-FID	96.0		575-002
Isooctane	Calculated				11.9			GC-FID			575-001 or 575-002
Isooctyl alcohol	Calculated				10.9			GC-FID			575-001 or 575-002
Isopentane (2-methyl butane)	Calculated		610 #		15.8			GC-FID			575-001 or 575-002
Isophorone	Partial	RDP0003			13.38	15	8	GC-FID		95	575-002
Isoprene	Calculated				18.25			GC-FID			575-001 or 575-002
Isopropanol (isopropyl alcohol)	Calculated		500 #		18.42	15	8	GC-FID			575-001
Isopropanol (isopropyl alcohol)	Partial	1839	500 #		18.42	15	8	GC-FID	103.5	102	575-002
Isopropyl acetate	Calculated				14.2			GC-FID	88.5		575-001
Isopropyl acetate	Calculated				14.2			GC-FID	101		575-002
Isopropyl alcohol (isopropanol)	Partial	1839	500 #		18.42	15	8	GC-FID	103.5	102	575-002
Isopropyl benzene (cumene)	Bilevel				12.8	15	8	GC-FID	99.3		575-001
Isopropyl benzene (cumene)	Bilevel				12.8	15	8	GC-FID	106		575-002
Isopropyl ether	Calculated				13.4			GC-FID			575-001 or 575-002
Isopropyl glycidyl ether	Calculated		50 #		12.8			GC-FID			575-001 or 575-002
4-Isopropyltoluene (p-cymene)	Calculated				11.3			GC-FID			575-001 or 575-002
Isovalerone (diisobutyl ketone [DIBK])	Bilevel	1305			10.3	30	8	GC-FID	98.3		575-002
Jet fuel	Calculated				11.3			GC-FID			575-001 or 575-002
Kerosene	Calculated				11.03			GC-FID			575-001 or 575-002
Lauryl alcohol (1-dodecanol)	Calculated				8.7			GC-FID	107.5		575-001
Lauryl alcohol (1-dodecanol)	Calculated				8.7			GC-FID	103	103.8	575-002
Limonene	Calculated				11.1			GC-FID	102		575-002
Mesityl oxide	Calculated				13.7			GC-FID			575-001 or 575-002
Mesitylene (1,3,5-trimethylbenzene)	Calculated				12.1			GC-FID	93.6		575-001
Mesitylene (1,3,5-Trimethylbenzene)	Calculated				12.1			GC-FID	96		575-002
Mesitylene (1,3,5-trimethylbenzene)	OSHA 1020				12.1	15	8	GC-FID	101		575-002
Methacrolein	Calculated				17.4			GC-FID			575-001 or 575-002
Methanol (methyl alcohol)	Partial	1895	250		1.2	15	8	GC-FID	101	93.8	575-007
2-Methoxy-1-propyl acetate	Calculated				12.1			GC-FID			575-001 or 575-002
1-Methoxy-2-propanol (propylene glycol monomethyl ether)	Calculated		150 #		14.7			GC-FID	82.9		575-001
1-Methoxy-2-propanol (propylene glycol monomethyl ether)	Calculated		150 #		14.7			GC-FID	100	106	575-002
1-Methoxy-2-propyl acetate (propylene glycol monomethyl ether acetate)	Calculated				12.2			GC-FID	108		575-001
1-Methoxy-2-propyl acetate (propylene glycol monomethyl ether acetate)	Calculated				12.1			GC-FID	103	105	575-002
2-Methoxyethanol (methyl CELLOSOLVE)	Calculated				16.1			GC-FID	94.7		575-001
2-Methoxyethanol (methyl CELLOSOLVE)	Calculated				16.1			GC-FID	91.1	81.8	575-002
2-(2-Methoxyethoxy) ethanol (diethylene glycol monomethyl ether)	Calculated				11.3			GC-FID			575-001 or 575-002
2-Methoxyethyl ether (diethylene glycol dimethyl ether)	Calculated				11.5			GC-FID			575-001 or 575-002
Methoxyflurane	Calculated		2		13.3			GC-FID	95.7		575-002
Methyl acetate	Calculated		250 #		17.8			GC-FID			575-001 or 575-002
Methyl acrylate	Full				15.7	15	8	GC-FID	94.3		575-002
Methyl alcohol (methanol)	Partial	1895	250		1.2	15	8	GC-FID	101	93.8	575-007
Methyl amyl alcohol (methyl isobutyl carbinol)	Calculated				12.8			GC-FID			575-002
Methyl bromide (bromomethane)	Calculated		20C		22.1			GC-FID			575-001 or 575-002
2-Methyl butane (isopentane)	Calculated		610 #		15.8			GC-FID			575-001
2-Methyl butyl acetate	Calculated				11.8			GC-FID			575-001 or 575-002
Methyl butyl ketone (MBK), (2-hexanone)	Calculated				14.3	15	8	GC-FID			575-001
Methyl butyl ketone (MBK), (2-hexanone)	Partial	1873			14.3	15	8	GC-FID	104	97.8	575-002
Methyl carbitol	Calculated				12.1			GC-FID			575-001 or 575-002
Methyl CELLOSOLVE (2-methoxyethanol)	Calculated				16.1			GC-FID	94.7		575-001
Methyl CELLOSOLVE (2-methoxyethanol)	Calculated				16.1			GC-FID	91.1	81.8	575-002
Methyl CELLOSOLVE acetate (ethylene glycol monomethyl ether acetate)	Calculated				12.9			GC-FID	92.4		575-002
Methyl chloroform (1,1,1-trichloroethane)	Bilevel				14.1	15	8	GC-FID	99.9		575-001
Methyl cyclohexane	Bilevel				14.2	15	8	GC-FID	106		575-001
Methyl ethyl ketone (MEK), (2-butanone)	Bilevel	1306			17.1	15	12	GC-FID	100		575-002
Methyl ethyl ketone (MEK), (2-butanone)	OSHA 1004				16.88	15	8	GC-FID	92.3	96.4	575-002
Methyl formate	Calculated				20.58			GC-FID			575-001 or 575-002
2-Methyl hexane	Calculated				12.80			GC-FID			575-001 or 575-002
3-Methyl hexane	Calculated				12.80			GC-FID			575-001 or 575-002
Methyl iodide (iodomethane)	Calculated				18.7			GC-FID			575-001 or 575-002
Methyl isoamyl ketone	Calculated				12.3			GC-FID			575-001 or 575-002
Methyl isobutyl carbinol (methyl amyl alcohol)	Calculated				12.8			GC-FID			575-001 or 575-002

See page 244 for abbreviations.

VOC Chek 575 Passive Samplers

Selection Guide

Chemical Hazard	Validation Level	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		Analytical Method	DE %		SKC VOC Chek 575 Cat. No.
			TWA (ppm)	C/STEL (ppm)		Min (min)	Max (hrs)		Std. %	Universal	
Methyl isobutyl ketone (MIBK), (hexone)	Bilevel	1304			13.5	30	8	GC-FID	94.6		575-002
Methyl isobutyl ketone (MIBK), (hexone)	OSHA 1004				13.62	30	8	GC-FID	92.9	99.5	575-002
Methyl isopropyl ketone	Calculated				14.8			GC-FID			575-001 or 575-002
Methyl isothiocyanate	Calculated				17.36			GC-FID			575-001 or 575-002
Methyl methacrylate (MMA)	Bilevel	1308			13.1	7.5	8	GC-FID	100.5		575-002
Methyl n-amyl ketone (2-heptanone)	Calculated				12.2			GC-FID	99.8		575-002
2-Methyl pentane	Calculated				14.1			GC-FID			575-001 or 575-002
3-Methyl pentane	Calculated				14.1			GC-FID			575-001 or 575-002
Methyl propyl ketone (2-pentanone)	Calculated				14.8			GC-FID	92.6		575-002
3-Methyl pyrrolidinone	Calculated				13.28			GC-FID			575-001 or 575-002
Methyl styrene (vinyl toluene)	Calculated				12.3			GC-FID			575-001 or 575-002
Methyl t-butyl ether (MTBE)	Full	1352			13.6	8.5	8	GC-FID	97.4		575-001
Methyl tert-amyl ether (tert-amyl methyl ether)	Bilevel	1355			13.1	30	8	GC-FID	99		575-001
2-Methyl tetrahydrofuran	Calculated				14.7			GC-FID			575-001 or 575-002
n-Methyl-2-pyrrolidinone	Calculated				13.97			GC-FID			575-001 or 575-002
5-Methyl-3-heptanone	Calculated				11.4			GC-FID	87.5		575-001
5-Methyl-3-heptanone	Calculated				11.4			GC-FID	110.7		575-002
Methylal (dimethoxymethane)	Calculated				17.1			GC-FID			575-001 or 575-002
Methylchloride (chloromethane)	Calculated				24.6			GC-FID			575-001 or 575-002
1-Methylcyclohexanol	Full				12.4	15	8	GC-FID	94.7		575-001
1-Methylcyclohexanol	Full				12.4	15	8	GC-FID	108		575-002
Methylcyclopentane	Calculated				14.9			GC-FID			575-001 or 575-002
Methylene chloride (dichloromethane)	Full	1323		125	14.7	60 ≈	8	GC-FID	96		575-001
3-Methylhexane	Calculated				12.8			GC-FID			575-001 or 575-002
alpha-Methylstyrene	Bilevel	1359		100 C	12.6	15	12	GC-FID	95.7		575-002
Mineral spirits	Calculated				10.95			GC-FID			575-001
Monochlorotoluene (1-chloro-2-methylbenzene; OXSOL 10)	Bilevel				13.0	15	8	GC-FID	91.8		575-001
Monochlorotoluene (1-chloro-2-methylbenzene; OXSOL 10)	Bilevel				13.0	15	8	GC-FID	91		575-002
Naphtha (solvent naphtha (petroleum) light aromatic)	Calculated				11.6			GC-FID			575-001 or 575-002
Naphthalene	Calculated				12.2			GC-FID			575-001 or 575-002
1-Naphthyl isothiocyanate	Calculated				11.3			GC-FID			575-001 or 575-002
Neohexane (2,2-dimethylbutane)	Calculated				14.2			GC-FID			575-001
Nitrobenzene	Calculated				12.6			GC-FID			575-001
Nonafluorobutyl methyl ether	Calculated				8.9			GC-FID			575-001 or 575-002
Nonane	Bilevel				10.6	15	8	GC-FID	103		575-001
Nonyl alcohol	Calculated				10.2			GC-FID	96.80		575-002
Octadecane	Calculated				7.1			GC-FID			575-001
Octamethylcyclotetrasiloxane (D4)	Partial	1890			6.32	15	8	GC-FID	97.2		575-001
Octamethyltrisiloxane (L3)	Partial	1902			8.47	15	8	GC-FID	98.3		575-001
n-Octane	Bilevel				12.7	15	8	GC-FID	106		575-001
n-Octane	Bilevel				12.7	15	8	GC-FID	110		575-002
Octanol (octyl alcohol)	Calculated				10.86			GC-FID			575-002
3-Octanone (ethyl amyl ketone)	Calculated				11.34			GC-FID			575-001 or 575-002
1-Octene	Calculated				11.99			GC-FID			575-001
Octyl alcohol (octanol)	Calculated				10.86			GC-FID			575-002
OXSOL 10 (monochlorotoluene [1-chloro-2-methyl benzene])	Bilevel				13	15	8	GC-FID	91.8		575-001
OXSOL 10 (monochlorotoluene [1-chloro-2-methyl benzene])	Bilevel				13	15	8	GC-FID	91		575-002
Oxybenzone	Calculated				15			GC-FID			575-001 or 575-002
Parachlorobenzotrifluoride (1-chloro-4-[trifluoromethyl] benzene; OXSOL 100)	Bilevel				11.8	15	8	GC-FID	102		575-001
Parachlorobenzotrifluoride (1-chloro-4-[trifluoromethyl] benzene; OXSOL 100)	Bilevel				11.8	15	8	GC-FID	108		575-002
Pentachloroethane	Calculated				12.4			GC-FID			575-001 or 575-002
Pentadecane	Calculated				7.93			GC-FID			575-001
n-Pentane	Full	1311			14.9	15	8	GC-FID	105.2		575-001
2,4-Pentanedione (acetylacetone)	Calculated				14.3						
3-Pentanone (diethyl ketone)	Calculated				14.8			GC-FID	83.9		575-001
3-Pentanone (diethyl ketone)	Calculated				14.8			GC-FID	100.3		575-002
2-Pentanone (methyl propyl ketone)	Calculated				14.8			GC-FID	92.6		575-002
1-Pentene	Calculated				16.3			GC-FID			575-001
2-Pentyl acetate (sec-amyl acetate)	Calculated				11.8			GC-FID			575-001
Perchloroethylene (tetrachloroethylene)	Full	1686		200 C	13.1	7.5	12	GC-FID	100.8		575-001
Perchloroethylene (tetrachloroethylene)	OSHA 1001			200 C	13.06	15	8	GC-FID	95.4		575-002
Perfluoromethylcyclohexane	Partial				10.2			GC-FID	102		575-002
Phenol (carbolic acid)	Calculated			15.6 C	14.5			GC-FID			575-001 or 575-002
Phenyl ether (diphenyl oxide)	Calculated				10.4			GC-FID			575-001
Phenyl glycidyl ether	Calculated				11.6			GC-FID			575-001
4-Phenylcyclohexene	Calculated				11.53			GC-FID			575-001 or 575-002
Phenyl propane	Calculated				12.14			GC-FID			575-001 or 575-002
alpha-Pinene	Partial	1840			11.3	15	8	GC-FID	108.6		575-002
Propane	Calculated				21.73			GC-FID			575-001
n-Propanol (propyl alcohol)	Calculated				17.7			GC-FID	87.3		575-001
n-Propanol (propyl alcohol)	Calculated				17.7			GC-FID	97.8		575-002
Propargyl alcohol	Calculated				19.0			GC-FID			575-001 or 575-002
Propionic acid	Calculated				16.8			GC-FID			575-001 or 575-002
Propionitrile	Calculated				18.61			GC-FID			575-001
Propoxy-2-propanol	Calculated				12.2			GC-FID			575-001 or 575-002
n-Propyl acetate	Calculated				14.1			GC-FID	87.5		575-001
n-Propyl acetate	Calculated				14.1			GC-FID	101.1		575-002
Propyl alcohol (n-propanol)	Calculated				17.7			GC-FID	87.3		575-001
Propyl alcohol (n-propanol)	Calculated				17.7			GC-FID	97.8		575-002
Propyl bromide (1-bromopropane)	Full	1740			14.4	30	8	GC-FID	100		575-001
Propyl bromide (1-bromopropane)	Full	1740			14.7	30	8	GC-FID	107		575-002
n-Propylbenzene	Calculated				12.1			GC-FID	101		575-002

See page 244 for abbreviations.

VOC Chek 575 Passive Samplers

Selection Guide

Chemical Hazard	Validation Level	Research Report	OSHA PELs Δ		Sampling Rate (ml/min)	Sampling Time		Analytical Method	DE %		SKC VOC Chek 575 Cat. No.
			TWA (ppm)	C/STEL (ppm)		Min (min)	Max (hrs)		Std. §	Universal	
Propylene dichloride (1,2-dichloropropane)	Bilevel				14.3	15	8	GC-FID	97.7		575-001
Propylene glycol monomethyl ether (1-methoxy-2-propanol)	Calculated			150 #	14.7			GC-FID	82.9		575-001
Propylene glycol monomethyl ether (1-methoxy-2-propanol)	Calculated			150 #	14.7			GC-FID	100	106	575-002
Propylene glycol monomethyl ether acetate (1-methoxy-2-propyl acetate)	Calculated				12.2			GC-FID	108		575-001
Propylene glycol monomethyl ether acetate (1-methoxy-2-propyl acetate)	Calculated				12.1			GC-FID	103	105	575-002
Propylene oxide	Calculated				19.9			GC-FID	98		575-001
Propylene oxide	Calculated				19.9			GC-FID	99.7		575-002
Pyridine	Calculated				16.6			GC-FID	88.2	93.8	575-002
Sevoflurane	Partial	1893		2	12.8	30	4	GC-FID	100		575-002
Siloxane D4 (octamethylcyclotetrasiloxane-D4)	Partial	1890			6.32	15	8	GC-FID	97.2		575-001
Siloxane D5 (decamethylcyclopentasiloxane-D5)	Partial	1891			5.66	15	8	GC-FID	99.0		575-001
Siloxane L2 (hexamethyldisiloxane-L2)	Partial	1892			9.98	15	8	GC-FID	102.9		575-001
Siloxane L3 (octamethyltrisiloxane-L3)	Partial	1902			8.47	15	8	GC-FID	98.3		575-001
Solvent naphtha (petroleum) light aromatic	Calculated				11.61			GC-FID			575-001 or 575-002
Styrene	Full	1313		200 C	13.70	15	8	GC-FID	≥ 75		575-002
Styrene	OSHA 1014			200 C	13.55	15	8	GC-FID	96.7		575-006
Terpineol	Calculated				10.27			GC-FID			575-001 or 575-002
1,1,1,2-Tetrachloroethane	Calculated				13.63			GC-FID	98.3		575-002
1,1,2,2-Tetrachloroethane	Bilevel				11.8	480∞	8	GC-FID	64.4*		575-001
Tetrachloroethylene (perchloroethylene)	Full	1686		200 C	13.1	7.5	12	GC-FID	100.8		575-001
Tetrachloroethylene (perchloroethylene)	OSHA 1001			200 C	13.06	15	8	GC-FID	95.4		575-002
Tetradecane	Calculated				8.3			GC-FID			575-001
Tetrahydrofuran	Partial	1841			17.7	15	8	GC-FID	100.6		575-002
1,2,3,4-Tetramethylbenzene	Calculated				11.1			GC-FID			575-001 or 575-002
1,2,3,5-Tetramethylbenzene	Calculated				10.8			GC-FID			575-001 or 575-002
1,2,4,5-Tetramethylbenzene	Calculated				11.2			GC-FID	86.6		575-002
Toluene	Bilevel			300 C	14.5	15	8	GC-FID	97.9		575-001
Toluene	Calculated			300 C	14.5	15	8	GC-FID		93.1	575-002
Toluene	OSHA 111			300 C	14.89	10	8	GC-FID	97		575-002
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	Calculated			1250 #	14.1			GC-FID			575-001 or 575-002
1,2,3-Trichlorobenzene	Calculated				11.34			GC-FID			575-001 or 575-002
1,2,4-Trichlorobenzene	Calculated			5 C	11.4			GC-FID			575-001 or 575-002
1,1,2-Trichloroethane	Bilevel				12.5	15	8	GC-FID	96.7		575-001
1,1,1-Trichloroethane (methyl chloroform)	Bilevel				14.1	15	8	GC-FID	99.9		575-001
Trichloroethylene	Full			200 C	14.9	15	8	GC-FID	102		575-001
Trichloroethylene	OSHA 1001			200 C	14.24	15	8	GC-FID	97.5		575-002
Trichlorofluoromethane (Freon 11)	Calculated				16.65			GC-FID			575-001 or 575-002
1,2,3-Trichloropropane	Bilevel				11.9	15	8	GC-FID	98.1		575-001
alpha, alpha, alpha-Trifluorotoluene	Calculated				13.4			GC-FID			575-001 or 575-002
Tridecane	Calculated				9.2			GC-FID			575-001 or 575-002
Trifluoromethyl benzene (benzotrifluoride; OXSOL 2000)	Bilevel				13.3	15	8	GC-FID	106		575-001
Trifluoromethyl benzene (benzotrifluoride; OXSOL 2000)	Bilevel				13.3	15	8	GC-FID	107		575-002
1,2,3-Trimethylbenzene	Calculated				12.0			GC-FID	91.1		575-001
1,2,3-Trimethylbenzene	Calculated				12.0	15	8	GC-FID	93.8		575-002
1,2,3-Trimethylbenzene	OSHA 1020				11.6	15	4	GC-FID	98.3		575-002
1,2,4-Trimethylbenzene	OSHA 1020				11.7	15	4	GC-FID	93.8		575-002
1,2,4-Trimethylbenzene	Partial				13.05			GC-FID	88.4		575-001
1,2,4-Trimethylbenzene	Partial	1837			13.05	15	8	GC-FID	88.9		575-002
1,3,5-Trimethylbenzene (mesitylene)	Calculated				12.1			GC-FID	93.6		575-001
1,3,5-Trimethylbenzene (mesitylene)	Calculated				12.1			GC-FID	96		575-002
1,3,5-Trimethylbenzene (mesitylene)	OSHA 1020				12.1	15	4	GC-FID	101		575-002
2,2,4-Trimethylpentane	Calculated				11.89			GC-FID			575-001 or 575-002
n-Undecane	Calculated				9.62			GC-FID			575-001 or 575-002
1-Undecanol	Calculated				9.59			GC-FID			575-001 or 575-002
Vinyl acetate	Full	1860		4 C #	16.4	30	8	GC-FID	92		575-002
Vinyl bromide	Calculated				19.6			GC-FID			575-001 or 575-002
Vinyl chloride	Calculated				21.4			GC-FID			575-001 or 575-002
Vinyl toluene (methyl styrene)	Calculated				12.3			GC-FID			575-001 or 575-002
n-Vinyl-2-pyrrolidone	Calculated				13.9			GC-FID			575-001 or 575-002
4-Vinylcyclohexene	Calculated				12.4			GC-FID			575-001 or 575-002
Vinylidene chloride (1,1-dichloroethene)	Bilevel				12.3	60	8	GC-FID	95.2		575-001
m-Xylene	Bilevel			150 #	12.5	15	8	GC-FID	96.6		575-001
m-Xylene	Bilevel			150 #	12.5	15	8	GC-FID	101		575-002
m-Xylene	OSHA 1002			150 #	13.82	15	8	GC-FID	96.1		575-002
o-Xylene	Bilevel			150 #	11.9	15	8	GC-FID	91		575-001
o-Xylene	OSHA 1002			150 #	14.24	15	8	GC-FID	89.4		575-002
p-Xylene	Bilevel			150 #	12.8	15	8	GC-FID	95.6		575-001
p-Xylene	Bilevel			150 #	12.8	15	8	GC-FID	103		575-002
p-Xylene	OSHA 1002			150 #	13.94	15	8	GC-FID	95.3		575-002
Xylenes, Total	Partial				12.64	15	8	GC-FID			575-001 or 575-002

* Lower than the NIOSH-accepted guideline
 # NIOSH Short Term Exposure Limit (STEL)
 ∞ Depends on detector sensitivity
 † In-house exposure level
 ‡ NIOSH Recommended Exposure Limit (REL)
 ◇ Occidental Chemical corporate exposure limits
 Δ Agency standards for OSHA listings represent the OSHA PELs reported in 29 CFR 1910.1000 Part 1910, Section 1000.
 ≈ STEL sampling, 7.5 to 30 min, see Research Report at skcinc.com/reports.

§ The values given for the desorption efficiency were obtained in SKC Inc. Laboratories. See the online guide at skcinc.com/samplingguide/passive for details on the desorption solvent used.
 ¶ OSHA construction industry standards
 ▼ OARS-WEEL TWA Level (Occupational Alliance for Risk Science - Workplace Environmental Exposure Levels)
 EL Excursion Limit
 LFC Lowest feasible concentration Part 1910, Section 1000.
 Ω Search for and consult Research Report 1303 at skcinc.com/reports for further information on choosing a sampling rate.

More information at skcinc.com/samplingguide/passive

See page 244 for abbreviations.