Assay Technology Inc - Sampling Guide

 # - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed.
Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

OSP = Organic Solvent Panel. See X525-25AT

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Acetaldehyde #	75-07-0	571AT #	571AT Badge	11.7	OSHA 200 PPM	ACGIH CEILING 25 PPM	0.30 PPM	3		10	MOD EPA TO-11	Aldehyde		
Acetaldehyde	75-07-0	580AT	580AT Badge	80.7	OSHA 200 PPM	ACGIH CEILING 25 PPM	0.043 PPM	3		10	MOD EPA TO-11	Aldehyde		The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Acetaldehyde	75-07-0	581AT	581AT Badge	84.7	OSHA 200 PPM	ACGIH CEILING 25 PPM	0.041 PPM	3		10	MOD EPA TO-11	Aldehyde		
Acetic Acid #	64-19-7	543AT #	543AT Badge	11.0	OSHA 10 PPM	ACGIH TLV 15 PPM	0.077 PPM	1		6	MOD OSHA 1865G	Acetic Acid	Propenal	Can only be collected on 543 monitor. The media inside the badge changed with lot 6N17. The previous sampling rate was 7.09 mL/min. ***
Acetone	67-64-1	521AT	521AT Badge	83.0	OSHA 1000 PPM	ACGIH STEL 500 PPM	0.021 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Acetone #	67-64-1	546AT #	546AT Badge	3.23	OSHA 1000 PPM	ACGIH STEL 500 PPM	0.54 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Acetone	67-64-1	566AT	566AT Badge	12.9	OSHA 1000 PPM	ACGIH STEL 500 PPM	0.14 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Acetone	67-64-1	525AT	525AT Badge	87.2	OSHA 1000 PPM	ACGIH STEL 500 PPM	0.020 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Acetonitrile	75-05-8	521AT	521AT Badge	93.6	OSHA 40 PPM		0.019 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Acetonitrile	75-05-8	546AT	546AT Badge	3.48	OSHA 40 PPM		0.50 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Acetonitrile #	75-05-8	566AT #	566AT Badge	13.9	OSHA 40 PPM		0.12 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Acetonitrile	75-05-8	525AT	525AT Badge	98.3	OSHA 40 PPM		0.018 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Acetophenone	98-86-2	566AT	566AT Badge	8.00	ACGIH 10 PPM		0.26 PPM	5		6	AT L-OV (GC/FID)	OV List B		
Acrolein #	107-02-8	592AT #	592AT Badge	8.56	OSHA 0.1 PPM		0.053 PPM	0.5		10	MOD OSHA 52	Acrolein		
Acrylonitrile	107-13-1	521AT	521AT Badge	83.8	OSHA 2 PPM	OSHA CEILING 10 PPM	0.011 PPM	1		6	MOD NIOSH 1604	OV List A		
Acrylonitrile	107-13-1	546AT	546AT Badge	3.23	OSHA 2 PPM	OSHA CEILING 10 PPM	0.30 PPM	1		6	MOD NIOSH 1604	OV List A		
Acrylonitrile	107-13-1	566AT	566AT Badge	12.9	OSHA 2 PPM	OSHA CEILING 10 PPM	0.074 PPM	1		6	MOD NIOSH 1604	OV List A		
Acrylonitrile #	107-13-1	525AT #	525AT Badge	88.0	OSHA 2 PPM	OSHA CEILING 10 PPM	0.011 PPM	1		6	MOD NIOSH 1604	OV List A		
Allyl Alcohol	107-18-6	521AT	521AT Badge	80.8	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.0098 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Alcohol	107-18-6	546AT	546AT Badge	3.01	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.26 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Alcohol	107-18-6	566AT	566AT Badge	12.1	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.065 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Alcohol #	107-18-6	525AT #	525AT Badge	84.8	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.0093 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride	107-05-1	521AT	521AT Badge	80.8	OSHA 2 PPM	ACGIH CEILING 2 PPM	0.0091 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride	107-05-1	546AT	546AT Badge	2.62	OSHA 2 PPM	ACGIH CEILING 2 PPM	0.28 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride	107-05-1	566AT	566AT Badge	10.5	OSHA 2 PPM	ACGIH CEILING 2 PPM	0.070 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride #	107-05-1	525AT #	525AT Badge	84.8	OSHA 2 PPM	ACGIH CEILING 2 PPM	0.0086 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Ammonia #	7664-41-7	584AT #	584AT Badge	28.8	OSHA 50 PPM	ACGIH STEL 35 PPM	0.31 PPM	3		6	MOD OSHA ID 188	Ammonia		
Amyl Acetate	628-63-7	546AT	546AT Badge	2.01			0.18 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Amyl Acetate #	628-63-7	566AT #	566AT Badge	8.03			0.044 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Benzaldehyde #	100-52-7	571AT #	571AT Badge	6.97			0.021 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Benzal	
Benzaldehyde	100-52-7	580AT	580AT Badge	62.7			0.0023 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Benzal	The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Benzaldehyde	100-52-7	581AT	581AT Badge	65.8			0.0022 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Benzal	
Benzene	71-43-2	521AT	521AT Badge	73.0	OSHA 1 PPM	OSHA STEL 5 PPM	0.0036 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Benzene	71-43-2	546AT	546AT Badge	2.42	OSHA 1 PPM	OSHA STEL 5 PPM	0.11 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		
Benzene	71-43-2	566AT	566AT Badge	9.69	OSHA 1 PPM	OSHA STEL 5 PPM	0.027 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		
Benzene #	71-43-2	525AT #	525AT Badge	76.7	OSHA 1 PPM	OSHA STEL 5 PPM	0.0034 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Benzyl Alcohol #	100-51-6	566AT #	566AT Badge	8.50			0.28 PPM	5		6	AT L-OV (GC/FID)			
Benzyl Alcohol	100-51-6	521AT	521AT Badge	62.3			0.038 PPM	5		6	AT L-OV (GC/FID)			
Benzyl Alcohol	100-51-6	546AT	546AT Badge	2.13			1.1 PPM	5		6	AT L-OV (GC/FID)			
Benzyl Alcohol	100-51-6	525AT	525AT Badge	65.4			0.036 PPM	5		6	AT L-OV (GC/FID)			
Benzyl Chloride	100-44-7	521AT	521AT Badge	56.4	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0071 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Benzyl Chloride	100-44-7	546AT	546AT Badge	2.03	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.20 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Benzyl Chloride	100-44-7	566AT	566AT Badge	8.14	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.049 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Benzyl Chloride #	100-44-7	525AT #	525AT Badge	59.2	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0068 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,3-Butadiene	106-99-0	546AT	546AT Badge	3.20	OSHA 1 PPM	OSHA STEL 5 PPM	0.18 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
1,3-Butadiene #	106-99-0	566AT #	566AT Badge	12.8	OSHA 1 PPM	OSHA STEL 5 PPM	0.044 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
1-Butanol	71-36-3	521AT	521AT Badge	68.2	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.010 PPM	1		6	AT L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	This Chemical is on the Organic Solvent Panel. OSP
1-Butanol	71-36-3	546AT	546AT Badge	2.67	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	
1-Butanol #	71-36-3	566AT #	566AT Badge	10.7	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.064 PPM	1		6	AT L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	
1-Butanol	71-36-3	525AT	525AT Badge	71.6	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.0096 PPM	1		6	AT L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	This Chemical is on the Organic Solvent Panel. OSP
2-Butanol	78-92-2	546AT	546AT Badge	2.67	OSHA 150 PPM	NIOSH STEL 150 PPM	0.18 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	sec-Butyl Alcohol	
2-Butanol #	78-92-2	566AT #	566AT Badge	10.7	OSHA 150 PPM	NIOSH STEL 150 PPM	0.045 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	sec-Butyl Alcohol	
2-Butoxyethanol	111-76-2	546AT	546AT Badge	2.11	OSHA 50 PPM		1.0 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellosolve	
2-Butoxyethanol #	111-76-2	566AT #	566AT Badge	8.43	OSHA 50 PPM		0.26 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellosolve	
2-Butoxyethanol	111-76-2	521AT	521AT Badge	50.2	OSHA 50 PPM		0.043 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellosolve	
2-Butoxyethanol	111-76-2	525AT	525AT Badge	52.7	OSHA 50 PPM		0.041 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellosolve	
N-Butyl Acetate	123-86-4	521AT	521AT Badge	53.2	OSHA 150 PPM	ACGIH STEL 150 PPM	0.0074 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
N-Butyl Acetate #	123-86-4	546AT #	546AT Badge	1.99	OSHA 150 PPM	ACGIH STEL 150 PPM	0.20 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
N-Butyl Acetate	123-86-4	566AT	566AT Badge	7.94	OSHA 150 PPM	ACGIH STEL 150 PPM	0.050 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
N-Butyl Acetate	123-86-4	525AT	525AT Badge	55.9	OSHA 150 PPM	ACGIH STEL 150 PPM	0.0071 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Tert-Butyl Acetate #	540-88-5	546AT #	546AT Badge	2.13	OSHA 200 PPM		0.41 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Tert-Butyl Acetate	540-88-5	566AT	566AT Badge	8.50	OSHA 200 PPM		0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Tert-Butyl Acetate	540-88-5	521AT	521AT Badge	53.0	OSHA 200 PPM		0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Tert-Butyl Acetate	540-88-5	525AT	525AT Badge	55.7	OSHA 200 PPM		0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Butyl Acrylate	141-32-2	521AT	521AT Badge	55.6	ACGIH 2 PPM		0.0093 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butyl Acrylate	141-32-2	546AT	546AT Badge	2.03	ACGIH 2 PPM		0.26 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butyl Acrylate	141-32-2	566AT	566AT Badge	8.10	ACGIH 2 PPM		0.064 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butyl Acrylate #	141-32-2	525AT #	525AT Badge	58.4	ACGIH 2 PPM		0.0088 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
T-Butyl Alcohol	75-65-0	546AT	546AT Badge	2.67	OSHA 100 PPM	NIOSH STEL 150 PPM	0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A		
T-Butyl Alcohol #	75-65-0	566AT #	566AT Badge	10.7	OSHA 100 PPM	NIOSH STEL 150 PPM	0.064 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Butyl Glycidyl Ether #	2426-08-6	566AT #	566AT Badge	7.70	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.051 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Butyl Glycidyl Ether	2426-08-6	546AT	546AT Badge	1.92	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.20 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Butyl Glycidyl Ether	2426-08-6	521AT	521AT Badge	55.3	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.0071 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Butyl Glycidyl Ether	2426-08-6	525AT	525AT Badge	58.1	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.0067 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Butyl Methacrylate	97-88-1	566AT	566AT Badge	7.67			0.061 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butyl Methacrylate	97-88-1	521AT	521AT Badge	53.8			0.0087 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butyl Methacrylate	97-88-1	525AT	525AT Badge	56.5			0.0082 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
T-Butyl Methyl Ether	1634-04-4	521AT	521AT Badge	62.9	ACGIH 50 PPM		0.0083 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether	1634-04-4	546AT	546AT Badge	2.44	ACGIH 50 PPM		0.21 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether #	1634-04-4	566AT #	566AT Badge	9.77	ACGIH 50 PPM		0.053 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether	1634-04-4	525AT	525AT Badge	66.0	ACGIH 50 PPM		0.0079 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
Butylamine #	109-73-9	585AT #	585AT Badge	7.04	OSHA 5 PPM	ACGIH CEILING 5 PPM	0.049 PPM	0.5		10	MOD OSHA 60	Amine		
Butyraldehyde #	123-72-8	571AT #	571AT Badge	8.20			0.026 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Butanal	
Butyraldehyde	123-72-8	580AT	580AT Badge	67.4			0.0031 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Butanal	The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Butyraldehyde	123-72-8	581AT	581AT Badge	70.8			0.0030 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Butanal	
Camphor	76-22-2	521AT	521AT Badge	45.4			0.0044 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Camphor	76-22-2	546AT	546AT Badge	1.61			0.12 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Camphor	76-22-2	566AT	566AT Badge	6.43			0.031 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Camphor #	76-22-2	525AT #	525AT Badge	47.7			0.0042 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Carbon Tetrachloride	56-23-5	521AT	521AT Badge	65.6	OSHA 10 PPM	OSHA CEILING 25 PPM	0.025 PPM	5		6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	546AT	546AT Badge	1.85	OSHA 10 PPM	OSHA CEILING 25 PPM	0.90 PPM	5		6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	566AT	566AT Badge	7.38	OSHA 10 PPM	OSHA CEILING 25 PPM	0.22 PPM	5		6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride #	56-23-5	525AT #	525AT Badge	68.9	OSHA 10 PPM	OSHA CEILING 25 PPM	0.024 PPM	5		6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Chlorobenzene	108-90-7	546AT	546AT Badge	2.16	OSHA 75 PPM		0.13 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Chlorobenzene #	108-90-7	566AT #	566AT Badge	8.64	OSHA 75 PPM		0.031 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	521AT	521AT Badge	59.2	OSHA 75 PPM		0.0046 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	525AT	525AT Badge	62.2	OSHA 75 PPM		0.0044 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Chloroform	67-66-3	521AT	521AT Badge	70.4	ACGIH 10 PPM	OSHA CEILING 50 PPM	0.018 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	This Chemical is on the Organic Solvent Panel. OSP
Chloroform	67-66-3	546AT	546AT Badge	2.10	ACGIH 10 PPM	OSHA CEILING 50 PPM	0.61 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	
Chloroform	67-66-3	566AT	566AT Badge	8.39	ACGIH 10 PPM	OSHA CEILING 50 PPM	0.15 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	

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All 521 sampling rates are with both covers removed.
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Information in this table can change without notice.

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Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Chloroform #	67-66-3	525AT #	525AT Badge	73.9	ACGIH 10 PPM	OSHA CEILING 50 PPM	0.017 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	This Chemical is on the Organic Solvent Panel. OSP
Cresol, Total	1319-77-3	521AT	521AT Badge	58.7			0.040 PPM	5		10	MOD OSHA 32	Phenol		
Cresol, Total #	1319-77-3	525AT #	525AT Badge	61.6			0.038 PPM	5		10	MOD OSHA 32	Phenol		
Crotonaldehyde #	4170-30-3	571AT #	571AT Badge	8.59	OSHA 2 PPM	ACGIH CEILING 0.3 PPM	0.0042 PPM	0.05		10	MOD EPA TO-11	Aldehyde		
Crotonaldehyde	4170-30-3	580AT	580AT Badge	68.1	OSHA 2 PPM	ACGIH CEILING 0.3 PPM	0.00053 PPM	0.05		10	MOD EPA TO-11	Aldehyde		The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Crotonaldehyde	4170-30-3	581AT	581AT Badge	71.5	OSHA 2 PPM	ACGIH CEILING 0.3 PPM	0.00051 PPM	0.05		10	MOD EPA TO-11	Aldehyde		
Cumene	98-82-8	546AT	546AT Badge	2.09			0.10 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Cumene #	98-82-8	566AT #	566AT Badge	8.36			0.025 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Cumene	98-82-8	521AT	521AT Badge	52.0			0.0041 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Cumene	98-82-8	525AT	525AT Badge	54.6			0.0039 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Ethyl 2-Cyanoacrylate #	7085-85-0	595AT #	595AT Badge	12.5	ACGIH 0.2 PPM		0.0098 PPM	0.3		10	MOD OSHA 55			Badges must be shipped on ice and arrive at the lab within 3 days of sampling. Please contact customer service to assure the lab is ready for them and can extract them before they expire.
Cyclohexane	110-82-7	521AT	521AT Badge	57.0	OSHA 300 PPM		0.0064 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Cyclohexane #	110-82-7	546AT #	546AT Badge	2.21	OSHA 300 PPM		0.16 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Cyclohexane	110-82-7	566AT	566AT Badge	8.82	OSHA 300 PPM		0.041 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Cyclohexane	110-82-7	525AT	525AT Badge	59.9	OSHA 300 PPM		0.0061 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanol	108-93-0	546AT	546AT Badge	2.29	OSHA 50 PPM		0.16 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanol #	108-93-0	566AT #	566AT Badge	9.16	OSHA 50 PPM		0.039 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanol	108-93-0	521AT	521AT Badge	54.0	OSHA 50 PPM		0.0066 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanol	108-93-0	525AT	525AT Badge	56.7	OSHA 50 PPM		0.0063 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	521AT	521AT Badge	63.6	OSHA 50 PPM	ACGIH CEILING 50 PPM	0.0049 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Cyclohexanone	108-94-1	546AT	546AT Badge	2.34	OSHA 50 PPM	ACGIH CEILING 50 PPM	0.13 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanone #	108-94-1	566AT #	566AT Badge	9.37	OSHA 50 PPM	ACGIH CEILING 50 PPM	0.033 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	525AT	525AT Badge	66.8	OSHA 50 PPM	ACGIH CEILING 50 PPM	0.0047 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Cyclohexylamine #	108-91-8	585AT #	585AT Badge	7.41	ACGIH 10 PPM		0.035 PPM	0.5		10	MOD OSHA 60	Amine		
Desflurane #	57041-67-5	571AT #	571AT Badge	8.56			0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Suprane	
Diacetone Alcohol	123-42-2	546AT	546AT Badge	2.13	OSHA 50 PPM		0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Diacetone Alcohol #	123-42-2	566AT #	566AT Badge	8.50	OSHA 50 PPM		0.052 PPM	1		6	AT L-OV (GC/FID)	OV List A		
1,5-Diaminopentane	462-94-2	585AT	585AT Badge	7.30			0.068 PPM	1		10	MOD OSHA 60	Amine		
1,3-Diaminopropane	109-76-2	585AT	585AT Badge	8.60			0.080 PPM	1		10	MOD OSHA 60	Amine		
1,2-Dibromoethane	106-93-4	521AT	521AT Badge	67.8			0.012 PPM	3		6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane #	106-93-4	566AT #	566AT Badge	6.67			0.12 PPM	3		6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	546AT	546AT Badge	1.67			0.49 PPM	3		6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	525AT	525AT Badge	71.2			0.011 PPM	3		6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dichlorobenzene #	95-50-1	566AT #	566AT Badge	6.78	OSHA 50 PPM	ACGIH STEL 50 PPM	0.051 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	546AT	546AT Badge	1.89	OSHA 50 PPM	ACGIH STEL 50 PPM	0.18 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	521AT	521AT Badge	53.8	OSHA 50 PPM	ACGIH STEL 50 PPM	0.0064 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	525AT	525AT Badge	56.5	OSHA 50 PPM	ACGIH STEL 50 PPM	0.0061 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,4-Dichlorobenzene #	106-46-7	566AT #	566AT Badge	6.78	OSHA 75 PPM		0.051 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,4-Dichlorobenzene	106-46-7	546AT	546AT Badge	1.89	OSHA 75 PPM		0.18 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,4-Dichlorobenzene	106-46-7	521AT	521AT Badge	53.8	OSHA 75 PPM		0.0064 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,4-Dichlorobenzene	106-46-7	525AT	525AT Badge	56.5	OSHA 75 PPM		0.0061 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,1-Dichloroethane	75-34-3	521AT	521AT Badge	72.8	OSHA 100 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1-Dichloroethane	75-34-3	546AT	546AT Badge	2.30	OSHA 100 PPM		0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1-Dichloroethane #	75-34-3	566AT #	566AT Badge	9.22	OSHA 100 PPM		0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1-Dichloroethane	75-34-3	525AT	525AT Badge	76.4	OSHA 100 PPM		0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,2-Dichloroethane	107-06-2	521AT	521AT Badge	60.5	OSHA 50 PPM	OSHA CEILING 100 PPM	0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	
1,2-Dichloroethane	107-06-2	546AT	546AT Badge	2.31	OSHA 50 PPM	OSHA CEILING 100 PPM	0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	
1,2-Dichloroethane #	107-06-2	566AT #	566AT Badge	9.22	OSHA 50 PPM	OSHA CEILING 100 PPM	0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	
1,2-Dichloroethane	107-06-2	525AT	525AT Badge	63.5	OSHA 50 PPM	OSHA CEILING 100 PPM	0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	
1,2-Dichloroethylene	540-59-0	521AT	521AT Badge	72.2	OSHA 200 PPM		0.015 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	
1,2-Dichloroethylene #	540-59-0	546AT #	546AT Badge	2.33	OSHA 200 PPM		0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	
1,2-Dichloroethylene	540-59-0	566AT	566AT Badge	9.32	OSHA 200 PPM		0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	
1,2-Dichloroethylene	540-59-0	525AT	525AT Badge	75.8	OSHA 200 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	
1,2-Dichloropropane	78-87-5	521AT	521AT Badge	57.9			0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propylene Dichloride	
1,2-Dichloropropane #	78-87-5	566AT #	566AT Badge	7.98			0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propylene Dichloride	
1,2-Dichloropropane	78-87-5	525AT	525AT Badge	60.8			0.015 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propylene Dichloride	
Dicyclopentadiene	77-73-6	521AT	521AT Badge	55.0	ACGIH 5 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	546AT	546AT Badge	1.99	ACGIH 5 PPM		0.39 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	566AT	566AT Badge	7.97	ACGIH 5 PPM		0.097 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Dicyclopentadiene #	77-73-6	525AT #	525AT Badge	57.8	ACGIH 5 PPM		0.013 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Diethanolamine #	111-42-2	585AT #	585AT Badge	7.19	ACGIH 0.2 PPM		0.067 PPM	1		10	MOD OSHA 60	Amine		
Diethyl Ketone	96-22-0	521AT	521AT Badge	63.4	ACGIH 200 PPM	ACGIH STEL 300 PPM	0.028 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone	96-22-0	546AT	546AT Badge	2.37	ACGIH 200 PPM	ACGIH STEL 300 PPM	0.75 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone #	96-22-0	566AT #	566AT Badge	9.47	ACGIH 200 PPM	ACGIH STEL 300 PPM	0.19 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone	96-22-0	525AT	525AT Badge	66.6	ACGIH 200 PPM	ACGIH STEL 300 PPM	0.027 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethylamine #	109-89-7	585AT #	585AT Badge	8.67	OSHA 25 PPM	ACGIH CEILING 15 PPM	0.040 PPM	0.5		10	MOD OSHA 60	Amine		
Diethylene Glycol Butyl Ether #	112-34-5	566AT #	566AT Badge	7.19			0.44 PPM	10		6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether	112-34-5	546AT	546AT Badge	1.80			1.7 PPM	10		6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylenetriamine #	111-40-0	585AT #	585AT Badge	7.26	ACGIH 1 PPM	OSHA CEILING 10 PPM	0.020 PPM	0.3		10	MOD OSHA 60	Amine		
Diisobutyl Ketone #	108-83-8	566AT #	566AT Badge	7.69	OSHA 50 PPM		0.042 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Diisobutyl Ketone	108-83-8	546AT	546AT Badge	1.92	OSHA 50 PPM		0.17 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Diisobutyl Ketone	108-83-8	521AT	521AT Badge	53.7	OSHA 50 PPM		0.0060 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Diisobutyl Ketone	108-83-8	525AT	525AT Badge	56.4	OSHA 50 PPM		0.0057 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Dimethylamine #	124-40-3	585AT #	585AT Badge	11.1	OSHA 10 PPM	ACGIH STEL 15 PPM	0.031 PPM	0.3		10	MOD OSHA 60	Amine		
N-N-Dimethylaniline	121-69-7	521AT	521AT Badge	56.6			0.0045 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
N-N-Dimethylaniline	121-69-7	546AT	546AT Badge	2.08			0.12 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
N-N-Dimethylaniline	121-69-7	566AT	566AT Badge	8.32			0.030 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
N-N-Dimethylaniline #	121-69-7	525AT #	525AT Badge	59.4			0.0042 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
N-N-Dimethylformamide	68-12-2	521AT	521AT Badge	69.6	OSHA 10 PPM		0.013 PPM	1.3		6	AT L-OV (GC/FID)	OV List A	DMF	
N-N-Dimethylformamide	68-12-2	546AT	546AT Badge	2.68	OSHA 10 PPM		0.34 PPM	1.3		6	AT L-OV (GC/FID)	OV List A	DMF	
N-N-Dimethylformamide	68-12-2	566AT	566AT Badge	10.7	OSHA 10 PPM		0.084 PPM	1.3		6	AT L-OV (GC/FID)	OV List A	DMF	
N-N-Dimethylformamide #	68-12-2	525AT #	525AT Badge	73.1	OSHA 10 PPM		0.012 PPM	1.3		6	AT L-OV (GC/FID)	OV List A	DMF	
Dimethylsulfoxide #	67-68-5	566AT #	566AT Badge	10.4			0.63 PPM	10		10	AT L-OV (GC/FID)		DMSO	Analysis only compatable with Methyl Ethyl Ketoxime. Analyzed in the California Lab.
1,4-Dioxane	123-91-1	521AT	521AT Badge	57.2	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.020 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,4-Dioxane	123-91-1	546AT	546AT Badge	2.44	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,4-Dioxane	123-91-1	566AT	566AT Badge	9.77	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,4-Dioxane #	123-91-1	525AT #	525AT Badge	60.1	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.019 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,3-Dioxolane	646-06-0	566AT	566AT Badge	10.2	ACGIH 20 PPM		0.067 PPM	1		6	AT L-OV (GC/FID)	OV List A		
1,3-Dioxolane	646-06-0	546AT	546AT Badge	2.60	ACGIH 20 PPM		0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Dipropylene Glycol Methylether	34590-94-8	521AT	521AT Badge	53.1	OSHA 100 PPM	ACGIH STEL 150 PPM	0.11 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dipropylene Glycol Methylether	34590-94-8	546AT	546AT Badge	1.88	OSHA 100 PPM	ACGIH STEL 150 PPM	3.1 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dipropylene Glycol Methylether #	34590-94-8	566AT #	566AT Badge	7.52	OSHA 100 PPM	ACGIH STEL 150 PPM	0.78 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dipropylene Glycol Methylether	34590-94-8	525AT	525AT Badge	55.8	OSHA 100 PPM	ACGIH STEL 150 PPM	0.10 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Enflurane #	13838-16-9	571AT #	571AT Badge	8.15	ACGIH 75 PPM		0.10 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Ethrane	
Epichlorohydrin	106-89-8	521AT	521AT Badge	61.9	OSHA 5 PPM		0.011 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	546AT	546AT Badge	2.39	OSHA 5 PPM		0.28 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	566AT	566AT Badge	9.54	OSHA 5 PPM		0.069 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin #	106-89-8	525AT #	525AT Badge	65.0	OSHA 5 PPM		0.010 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Ethanolamine #	141-43-5	585AT #	585AT Badge	7.70	OSHA 3 PPM	ACGIH STEL 6 PPM	0.032 PPM	0.3		10	MOD OSHA 60	Amine		
2-Ethoxyethanol	110-80-5	521AT	521AT Badge	62.4	OSHA 200 PPM		0.018 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol	110-80-5	546AT	546AT Badge	2.42	OSHA 200 PPM		0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol #	110-80-5	566AT #	566AT Badge	9.66	OSHA 200 PPM		0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol	110-80-5	525AT	525AT Badge	65.5	OSHA 200 PPM		0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	

Assay Technology Inc - Sampling Guide

 # - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed.
Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

OSP = Organic Solvent Panel. See X525-25AT

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Ethyl Acetate	141-78-6	521AT	521AT Badge	68.2	OSHA 400 PPM		0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Ethyl Acetate #	141-78-6	546AT #	546AT Badge	2.25	OSHA 400 PPM		0.52 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acetate	141-78-6	566AT	566AT Badge	8.98	OSHA 400 PPM		0.13 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acetate	141-78-6	525AT	525AT Badge	71.6	OSHA 400 PPM		0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Ethyl Acrylate	140-88-5	521AT	521AT Badge	58.8	OSHA 25 PPM	ACGIH STEL 15 PPM	0.0078 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate	140-88-5	546AT	546AT Badge	2.29	OSHA 25 PPM	ACGIH STEL 15 PPM	0.20 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate	140-88-5	566AT	566AT Badge	9.16	OSHA 25 PPM	ACGIH STEL 15 PPM	0.050 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate #	140-88-5	525AT #	525AT Badge	61.7	OSHA 25 PPM	ACGIH STEL 15 PPM	0.0074 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Alcohol	64-17-5	521AT	521AT Badge	79.4	OSHA 1000 PPM	ACGIH STEL 1000 PPM	0.14 PPM	10		6	AT L-OV (GC/FID)	OV List A	Ethanol	This Chemical is on the Organic Solvent Panel. OSP
Ethyl Alcohol #	64-17-5	546AT #	546AT Badge	3.39	OSHA 1000 PPM	ACGIH STEL 1000 PPM	3.3 PPM	10		6	AT L-OV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	566AT	566AT Badge	13.5	OSHA 1000 PPM	ACGIH STEL 1000 PPM	0.82 PPM	10		6	AT L-OV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	525AT	525AT Badge	83.4	OSHA 1000 PPM	ACGIH STEL 1000 PPM	0.13 PPM	10		6	AT L-OV (GC/FID)	OV List A	Ethanol	This Chemical is on the Organic Solvent Panel. OSP
Ethyl Ether #	60-29-7	546AT #	546AT Badge	2.82	OSHA 400 PPM	ACGIH STEL 500 PPM	0.73 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	566AT	566AT Badge	11.3	OSHA 400 PPM	ACGIH STEL 500 PPM	0.18 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	521AT	521AT Badge	72.8	OSHA 400 PPM	ACGIH STEL 500 PPM	0.028 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	525AT	525AT Badge	76.4	OSHA 400 PPM	ACGIH STEL 500 PPM	0.027 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Methacrylate #	97-63-2	566AT #	566AT Badge	8.41			0.053 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	521AT	521AT Badge	55.1			0.0081 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	546AT	546AT Badge	2.10			0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	525AT	525AT Badge	57.9			0.0077 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethylamine #	75-04-7	585AT #	585AT Badge	11.1	OSHA 10 PPM	ACGIH STEL 15 PPM	0.031 PPM	0.3		10	MOD OSHA 60	Amine		
Ethylbenzene	100-41-4	521AT	521AT Badge	60.6	OSHA 100 PPM	NIOSH 125 PPM	0.0040 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Ethylbenzene	100-41-4	546AT	546AT Badge	2.23	OSHA 100 PPM	NIOSH 125 PPM	0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Ethylbenzene #	100-41-4	566AT #	566AT Badge	8.91	OSHA 100 PPM	NIOSH 125 PPM	0.027 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Ethylbenzene	100-41-4	525AT	525AT Badge	63.6	OSHA 100 PPM	NIOSH 125 PPM	0.0038 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Ethylene Chlorohydrin	107-07-3	521AT	521AT Badge	64.9	OSHA 5 PPM	ACGIH CEILING 1 PPM	0.014 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin	107-07-3	546AT	546AT Badge	2.56	OSHA 5 PPM	ACGIH CEILING 1 PPM	0.35 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin	107-07-3	566AT	566AT Badge	10.2	OSHA 5 PPM	ACGIH CEILING 1 PPM	0.087 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin #	107-07-3	525AT #	525AT Badge	68.1	OSHA 5 PPM	ACGIH CEILING 1 PPM	0.013 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Glycol Dimethyl Ether	110-71-4	521AT	521AT Badge	62.4			0.0091 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Glycol Dimethyl Ether	110-71-4	546AT	546AT Badge	2.42			0.23 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Glycol Dimethyl Ether #	110-71-4	566AT #	566AT Badge	9.66			0.058 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Glycol Dimethyl Ether	110-71-4	525AT	525AT Badge	65.5			0.0086 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Oxide #	75-21-8	555AT #	555AT Badge	12.4	OSHA 1 PPM	OSHA STEL 5 PPM	0.011 PPM	0.12		6	MOD ASTM D5578	Ethylene Oxide		
Ethylenediamine #	107-15-3	585AT #	585AT Badge	9.59	OSHA 10 PPM		0.027 PPM	0.3		10	MOD OSHA 60	Amine		
Formaldehyde #	50-00-0	571AT #	571AT Badge	16.2	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.010 PPM	0.1		6	MOD OSHA 1007	Aldehyde	Formalin	For more informtaion about using badges for formaldehyde from Formalin, go to https://www.assaytech.com/product/571-aldehyde-monitor/
Formaldehyde	50-00-0	580AT	580AT Badge	110	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.0015 PPM	0.1		6	MOD OSHA 1007	Aldehyde	Formalin	The 580 badge has been replaced by the 581 badge. For more informtaion about using badges for formaldehyde from Formalin, go to https://www.assaytech.com/product/571-aldehyde-monitor/
Formaldehyde	50-00-0	581AT	581AT Badge	124	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.0014 PPM	0.1		6	MOD OSHA 1007	Aldehyde	Formalin	The 580 badge has been replaced by the 581 badge. For more informtaion about using badges for formaldehyde from Formalin, go to https://www.assaytech.com/product/571-aldehyde-monitor/
Glutaraldehyde	111-30-8	571AT	571AT Badge	7.24		ACGIH CEILING 0.05 PPM	0.00056 PPM	0.008		6	MOD OSHA 64	Aldehyde	Cidex	
Glutaraldehyde	111-30-8	580AT	580AT Badge	60.2		ACGIH CEILING 0.05 PPM	0.000068 PPM	0.008		6	MOD OSHA 64	Aldehyde	Cidex	The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Glutaraldehyde #	111-30-8	581AT #	581AT Badge	63.2		ACGIH CEILING 0.05 PPM	0.000064 PPM	0.008		6	MOD OSHA 64	Aldehyde	Cidex	
Halothane #	151-67-7	571AT #	571AT Badge	8.70	ACGIH 50 PPM		0.12 PPM	4		6	MOD OSHA 103	Anesthetic Gas		
HCFC-1233Zd(E) #	102687-65-0	549AT #	549AT Badge	0.600			0.65 PPM	1		10	AT L-OV (GC/FID)	Freon		
Heptane	142-82-5	521AT	521AT Badge	53.6	OSHA 500 PPM	ACGIH STEL 500 PPM	0.0047 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Heptane #	142-82-5	546AT #	546AT Badge	2.14	OSHA 500 PPM	ACGIH STEL 500 PPM	0.12 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Heptane	142-82-5	566AT	566AT Badge	8.54	OSHA 500 PPM	ACGIH STEL 500 PPM	0.030 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Heptane	142-82-5	525AT	525AT Badge	56.3	OSHA 500 PPM	ACGIH STEL 500 PPM	0.0045 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
2-Heptanone	110-43-0	546AT	546AT Badge	2.14	OSHA 100 PPM		0.15 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Heptanone #	110-43-0	566AT #	566AT Badge	8.58	OSHA 100 PPM		0.036 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Heptanone	110-43-0	521AT	521AT Badge	51.0	OSHA 100 PPM		0.0061 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Heptanone	110-43-0	525AT	525AT Badge	53.6	OSHA 100 PPM		0.0058 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
Hexanal #	66-25-1	571AT #	571AT Badge	6.48			0.24 PPM	3		10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	
Hexanal	66-25-1	580AT	580AT Badge	60.0			0.025 PPM	3		10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Hexanal	66-25-1	581AT	581AT Badge	63.0			0.024 PPM	3		10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	
N-Hexane	110-54-3	521AT	521AT Badge	58.0	OSHA 500 PPM		0.0061 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
N-Hexane	110-54-3	546AT	546AT Badge	2.47	OSHA 500 PPM		0.14 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
N-Hexane #	110-54-3	566AT #	566AT Badge	9.88	OSHA 500 PPM		0.036 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
N-Hexane	110-54-3	525AT	525AT Badge	60.9	OSHA 500 PPM		0.0058 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
2-Hexanone #	591-78-6	566AT #	566AT Badge	9.16	OSHA 100 PPM	ACGIH CEILING 10 PPM	0.028 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	546AT	546AT Badge	2.29	OSHA 100 PPM	ACGIH CEILING 10 PPM	0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	521AT	521AT Badge	75.0	OSHA 100 PPM	ACGIH CEILING 10 PPM	0.0034 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	525AT	525AT Badge	78.8	OSHA 100 PPM	ACGIH CEILING 10 PPM	0.0032 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
Hydrogen Peroxide #	7722-84-1	587AT #	587AT Badge	137	OSHA 1 PPM		0.020 PPM	1.8		6	MOD OSHA VI6	Subcontract		The 587 monitors are manufactured and analyzed by Advanced Chemical Sensor, AIHA LAP, LLC 102047. Badges are sent to AT Labs and subcontracted to ACS.
Isoamyl Alcohol #	123-51-3	566AT #	566AT Badge	9.77	OSHA 100 PPM	ACGIH CEILING 125 PPM	0.053 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	546AT	546AT Badge	2.44	OSHA 100 PPM	ACGIH CEILING 125 PPM	0.21 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	521AT	521AT Badge	73.0	OSHA 100 PPM	ACGIH CEILING 125 PPM	0.0071 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	525AT	525AT Badge	76.7	OSHA 100 PPM	ACGIH CEILING 125 PPM	0.0068 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	521AT	521AT Badge	60.6	OSHA 150 PPM		0.0072 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate #	110-19-0	546AT #	546AT Badge	2.13	OSHA 150 PPM		0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	566AT	566AT Badge	8.50	OSHA 150 PPM		0.052 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	525AT	525AT Badge	63.6	OSHA 150 PPM		0.0069 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Alcohol	78-83-1	521AT	521AT Badge	64.0	OSHA 100 PPM		0.0075 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Alcohol	78-83-1	546AT	546AT Badge	2.67	OSHA 100 PPM		0.18 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Alcohol #	78-83-1	566AT #	566AT Badge	10.7	OSHA 100 PPM		0.045 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Alcohol	78-83-1	525AT	525AT Badge	67.2	OSHA 100 PPM		0.0072 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Isoflurane #	26675-46-7	571AT #	571AT Badge	7.87	CAL 2 PPM		0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Forane	
Isophorone	78-59-1	521AT	521AT Badge	47.6	OSHA 25 PPM	ACGIH CEILING 5 PPM	0.0046 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isophorone #	78-59-1	566AT #	566AT Badge	7.80	OSHA 25 PPM	ACGIH CEILING 5 PPM	0.028 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isophorone	78-59-1	546AT	546AT Badge	1.95	OSHA 25 PPM	ACGIH CEILING 5 PPM	0.11 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isophorone	78-59-1	525AT	525AT Badge	50.0	OSHA 25 PPM	ACGIH CEILING 5 PPM	0.0044 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isopropyl Acetate #	108-21-4	546AT #	546AT Badge	2.27	OSHA 250 PPM	ACGIH CEILING 200 PPM	0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	566AT	566AT Badge	9.08	OSHA 250 PPM	ACGIH CEILING 200 PPM	0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	521AT	521AT Badge	52.0	OSHA 250 PPM	ACGIH CEILING 200 PPM	0.0096 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	525AT	525AT Badge	54.6	OSHA 250 PPM	ACGIH CEILING 200 PPM	0.0091 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Alcohol	67-63-0	521AT	521AT Badge	64.0	OSHA 400 PPM	ACGIH STEL 400 PPM	0.013 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	This Chemical is on the Organic Solvent Panel. OSP
Isopropyl Alcohol #	67-63-0	546AT #	546AT Badge	2.96	OSHA 400 PPM	ACGIH STEL 400 PPM	0.29 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	
Isopropyl Alcohol	67-63-0	566AT	566AT Badge	11.8	OSHA 400 PPM	ACGIH STEL 400 PPM	0.072 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	
Isopropyl Alcohol	67-63-0	525AT	525AT Badge	67.2	OSHA 400 PPM	ACGIH STEL 400 PPM	0.013 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	This Chemical is on the Organic Solvent Panel. OSP
D-Limonene	5989-27-5	521AT	521AT Badge	45.6			0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		
D-Limonene	5989-27-5	546AT	546AT Badge	1.96			0.38 PPM	2		6	AT L-OV (GC/FID)	OV List A		
D-Limonene #	5989-27-5	566AT #	566AT Badge	7.86			0.095 PPM	2		6	AT L-OV (GC/FID)	OV List A		
D-Limonene	5989-27-5	525AT	525AT Badge	57.2			0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Mercury #	7439-97-6	593AT #	593AT Badge	14.9	OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.00070 MG/M3	0.005		6	AT CVAF	Mercury		
Mesitylene	108-67-8	546AT	546AT Badge	2.09	OSHA 25 PPM		1.0 PPM	5		6	AT L-OV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	
Mesitylene #	108-67-8	566AT #	566AT Badge	8.36	OSHA 25 PPM		0.25 PPM	5		6	AT L-OV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	
Mesitylene	108-67-8	521AT	521AT Badge	56.7	OSHA 25 PPM		0.037 PPM	5		6	AT L-OV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	
Mesitylene	108-67-8	525AT	525AT Badge	59.5	OSHA 25 PPM		0.036 PPM	5		6	AT L-OV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	

Assay Technology Inc - Sampling Guide

 # - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed.
Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

OSP = Organic Solvent Panel. See X525-25AT

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
2-Methoxyethanol	109-86-4	521AT	521AT Badge	56.6	OSHA 25 PPM		0.026 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethanol #	109-86-4	566AT #	566AT Badge	10.5	OSHA 25 PPM		0.14 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethanol	109-86-4	546AT	546AT Badge	2.63	OSHA 25 PPM		0.56 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethanol	109-86-4	525AT	525AT Badge	59.4	OSHA 25 PPM		0.025 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethyl Acetate #	110-49-6	566AT #	566AT Badge	8.00	OSHA 25 PPM		0.27 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methoxyethyl Acetate	110-49-6	521AT	521AT Badge	57.0	OSHA 25 PPM		0.038 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methoxyethyl Acetate	110-49-6	546AT	546AT Badge	2.00	OSHA 25 PPM		1.1 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methoxyethyl Acetate	110-49-6	525AT	525AT Badge	59.9	OSHA 25 PPM		0.036 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
Methyl Acetate #	79-20-9	566AT #	566AT Badge	10.3	OSHA 200 PPM	ACGIH STEL 250 PPM	0.13 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acetate	79-20-9	521AT	521AT Badge	66.8	OSHA 200 PPM	ACGIH STEL 250 PPM	0.021 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acetate	79-20-9	525AT	525AT Badge	70.1	OSHA 200 PPM	ACGIH STEL 250 PPM	0.020 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acrylate	96-33-3	521AT	521AT Badge	65.2	OSHA 10 PPM		0.018 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acrylate	96-33-3	546AT	546AT Badge	2.47	OSHA 10 PPM		0.48 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acrylate #	96-33-3	566AT #	566AT Badge	9.89	OSHA 10 PPM		0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acrylate	96-33-3	525AT	525AT Badge	68.5	OSHA 10 PPM		0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Alcohol #	67-56-1	546AT #	546AT Badge	4.06	OSHA 200 PPM	ACGIH STEL 250 PPM	1.2 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methanol	Use 566 badge for STEL. Use 546 for PEL. It is not recommended that Methyl Alcohol be collected on the 521/525 badge.
Methyl Alcohol	67-56-1	566AT	566AT Badge	16.2	OSHA 200 PPM	ACGIH STEL 250 PPM	0.29 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methanol	Use 566 badge for STEL. Use 546 for PEL. It is not recommended that Methyl Alcohol be collected on the 521/525 badge.
Methyl Ethyl Ketone	78-93-3	521AT	521AT Badge	76.6	OSHA 200 PPM		0.0074 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Methyl Ethyl Ketone #	78-93-3	546AT #	546AT Badge	2.80	OSHA 200 PPM		0.20 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		
Methyl Ethyl Ketone	78-93-3	566AT	566AT Badge	11.2	OSHA 200 PPM		0.050 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		
Methyl Ethyl Ketone	78-93-3	525AT	525AT Badge	80.4	OSHA 200 PPM		0.0070 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Methyl Ethyl Ketoxime	96-29-7	546AT	546AT Badge	2.31			0.76 PPM	3		6	AT L-OV (GC/FID)			Analysis only compatable with DMSO. Analyzed in the California Lab.
Methyl Ethyl Ketoxime #	96-29-7	566AT #	566AT Badge	9.23			0.19 PPM	3		6	AT L-OV (GC/FID)			Analysis only compatable with DMSO. Analyzed in the California Lab.
Methyl Ethyl Ketoxime	96-29-7	521AT	521AT Badge	63.1			0.028 PPM	3		6	AT L-OV (GC/FID)			Analysis only compatable with DMSO. Analyzed in the California Lab.
Methyl Ethyl Ketoxime	96-29-7	525AT	525AT Badge	66.3			0.026 PPM	3		6	AT L-OV (GC/FID)			Analysis only compatable with DMSO. Analyzed in the California Lab.
Methyl Isoamyl Ketone #	110-12-3	566AT #	566AT Badge	8.58	OSHA 100 PPM		0.052 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isoamyl Ketone	110-12-3	546AT	546AT Badge	2.14	OSHA 100 PPM		0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isoamyl Ketone	110-12-3	521AT	521AT Badge	57.7	OSHA 100 PPM		0.0077 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isoamyl Ketone	110-12-3	525AT	525AT Badge	60.6	OSHA 100 PPM		0.0074 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol #	108-11-2	566AT #	566AT Badge	9.08	OSHA 25 PPM	ACGIH CEILING 40 PPM	0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol	108-11-2	521AT	521AT Badge	52.6	OSHA 25 PPM	ACGIH CEILING 40 PPM	0.0095 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol	108-11-2	546AT	546AT Badge	2.27	OSHA 25 PPM	ACGIH CEILING 40 PPM	0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol	108-11-2	525AT	525AT Badge	55.2	OSHA 25 PPM	ACGIH CEILING 40 PPM	0.0090 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Ketone	108-10-1	521AT	521AT Badge	63.0	OSHA 100 PPM	ACGIH CEILING 75 PPM	0.0057 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone	This Chemical is on the Organic Solvent Panel. OSP
Methyl Isobutyl Ketone	108-10-1	546AT	546AT Badge	2.29	OSHA 100 PPM	ACGIH CEILING 75 PPM	0.16 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone	
Methyl Isobutyl Ketone #	108-10-1	566AT #	566AT Badge	9.16	OSHA 100 PPM	ACGIH CEILING 75 PPM	0.039 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone	
Methyl Isobutyl Ketone	108-10-1	525AT	525AT Badge	66.2	OSHA 100 PPM	ACGIH CEILING 75 PPM	0.0054 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone	This Chemical is on the Organic Solvent Panel. OSP
Methyl Methacrylate	80-62-6	521AT	521AT Badge	60.0	OSHA 100 PPM	ACGIH STEL 100 PPM	0.0085 PPM	1		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Methyl Methacrylate	80-62-6	546AT	546AT Badge	2.29	OSHA 100 PPM	ACGIH STEL 100 PPM	0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Methacrylate #	80-62-6	566AT #	566AT Badge	9.16	OSHA 100 PPM	ACGIH STEL 100 PPM	0.056 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Methacrylate	80-62-6	525AT	525AT Badge	63.0	OSHA 100 PPM	ACGIH STEL 100 PPM	0.0081 PPM	1		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
1-Methyl-2-Pyrrolidinone	872-50-4	521AT	521AT Badge	60.9	CAL 1 PPM		0.093 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidinone	872-50-4	546AT	546AT Badge	2.33	CAL 1 PPM		2.4 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidinone #	872-50-4	566AT #	566AT Badge	9.31	CAL 1 PPM		0.61 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidinone	872-50-4	525AT	525AT Badge	63.9	CAL 1 PPM		0.088 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
Methylamine #	74-89-5	585AT #	585AT Badge	13.4	OSHA 10 PPM	ACGIH STEL 15 PPM	0.024 PPM	0.2		10	MOD OSHA 60	Amine		
Methylcyclohexane #	108-87-2	546AT #	546AT Badge	2.33	OSHA 500 PPM		0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Methylcyclohexane	108-87-2	566AT	566AT Badge	9.32	OSHA 500 PPM		0.028 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Methylene Chloride	75-09-2	521AT	521AT Badge	69.2	OSHA 25 PPM	OSHA STEL 125 PPM	0.026 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	This Chemical is on the Organic Solvent Panel. OSP
Methylene Chloride	75-09-2	546AT	546AT Badge	2.39	OSHA 25 PPM	OSHA STEL 125 PPM	0.75 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	
Methylene Chloride #	75-09-2	566AT #	566AT Badge	9.54	OSHA 25 PPM	OSHA STEL 125 PPM	0.19 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	
Methylene Chloride	75-09-2	525AT	525AT Badge	72.7	OSHA 25 PPM	OSHA STEL 125 PPM	0.025 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	This Chemical is on the Organic Solvent Panel. OSP
Morpholine #	110-91-8	585AT #	585AT Badge	7.92	OSHA 20 PPM	NIOSH STEL 30 PPM	0.15 PPM	2		10	MOD OSHA 60	Amine		
Naphthalene	91-20-3	521AT	521AT Badge	55.6	OSHA 10 PPM	NIOSH STEL 15 PPM	0.046 PPM	6.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Naphthalene	91-20-3	546AT	546AT Badge	2.03	OSHA 10 PPM	NIOSH STEL 15 PPM	1.3 PPM	6.5		6	AT L-OV (GC/FID)	OV List A		
Naphthalene	91-20-3	566AT	566AT Badge	8.10	OSHA 10 PPM	NIOSH STEL 15 PPM	0.32 PPM	6.5		6	AT L-OV (GC/FID)	OV List A		
Naphthalene #	91-20-3	525AT #	525AT Badge	58.4	OSHA 10 PPM	NIOSH STEL 15 PPM	0.044 PPM	6.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Nitrogen Dioxide #	10102-44-0	594AT #	594AT Badge	22.3	ACGIH 0.2 PPM	OSHA CEILING 5 PPM	0.025 PPM	0.5		6	MOD OSHA 182	Nitrogen Dioxide		
Nitrous Oxide #	10024-97-2	575AT #	575AT Badge	0.880	NIOSH 25 PPM		0.53 PPM	0.4		6	AT SOP L575	Nitrous Oxide		
Nonane #	111-84-2	546AT #	546AT Badge	2.02	ACGIH 200 PPM		0.098 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	566AT	566AT Badge	8.09	ACGIH 200 PPM		0.025 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	521AT	521AT Badge	44.6	ACGIH 200 PPM		0.0045 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	525AT	525AT Badge	46.8	ACGIH 200 PPM		0.0042 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Octane	111-65-9	521AT	521AT Badge	42.6	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.021 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Octane #	111-65-9	546AT #	546AT Badge	2.14	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.42 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Octane	111-65-9	566AT	566AT Badge	8.58	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Octane	111-65-9	525AT	525AT Badge	44.7	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.020 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Organic Solvent Panel	P705-25	521AT	521AT Badge							6	AT L-OV (GC/FID)	OV List Panel		Organic Solvent Panel (OSP) Search "OSP" for list of chemicals.
Organic Solvent Panel	P705-25	525AT	525AT Badge							6	AT L-OV (GC/FID)	OV List Panel		Organic Solvent Panel (OSP) Search "OSP" for list of chemicals.
Ozone #	10028-15-6	586AT #	586AT Badge	15.2	OSHA 0.1 PPM	NIOSH CEILING 0.1 PPM	0.0070 PPM	0.1		6	MOD OSHA 214	Ozone		Not recommended for STEL monitoring.
1,1,1,3,3-Pentafluoropropane #	460-73-1	549AT #	549AT Badge	0.610			0.62 PPM	1		10	AT L-OV (GC/FID)	Freon		Not validated on the 546, 566, 525 nor 521 badges.
Pentane	109-66-0	521AT	521AT Badge	66.6	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.0064 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Pentane #	109-66-0	546AT #	546AT Badge	2.70	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.16 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Pentane	109-66-0	566AT	566AT Badge	10.8	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.039 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Pentane	109-66-0	525AT	525AT Badge	69.9	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.0061 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
2-Pentanone #	107-87-9	546AT #	546AT Badge	2.47	OSHA 200 PPM	ACGIH CEILING 150 PPM	0.17 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentanone	107-87-9	566AT	566AT Badge	9.89	OSHA 200 PPM	ACGIH CEILING 150 PPM	0.042 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentanone	107-87-9	525AT	525AT Badge	66.6	OSHA 200 PPM	ACGIH CEILING 150 PPM	0.0062 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
Perchloroethylene	127-18-4	521AT	521AT Badge	63.2	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0097 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	This Chemical is on the Organic Solvent Panel. OSP
Perchloroethylene	127-18-4	546AT	546AT Badge	1.78	OSHA 100 PPM	OSHA CEILING 200 PPM	0.35 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	
Perchloroethylene #	127-18-4	566AT #	566AT Badge	7.11	OSHA 100 PPM	OSHA CEILING 200 PPM	0.086 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	
Perchloroethylene	127-18-4	525AT	525AT Badge	66.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0093 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	This Chemical is on the Organic Solvent Panel. OSP
PGMEA	108-65-6	546AT	546AT Badge	2.00			0.19 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	
PGMEA #	108-65-6	566AT #	566AT Badge	7.98			0.048 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	
PGMEA	108-65-6	521AT	521AT Badge	55.0			0.0070 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	
PGMEA	108-65-6	525AT	525AT Badge	57.8			0.0067 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	
Phenol	108-95-2	521AT	521AT Badge	61.5	OSHA 5 PPM	NIOSH CEILING 15.6 PPM	0.044 PPM	5		10	MOD OSHA 32	Phenol		Phenol on a 521 badge is sold as a X521-4AT. If Phenol is submitted on a 521-1, there will be an addltional fee. Contact our customer service group for more details.
Phenol #	108-95-2	525AT #	525AT Badge	64.6	OSHA 5 PPM	NIOSH CEILING 15.6 PPM	0.042 PPM	5		10	MOD OSHA 32	Phenol		Phenol on a 521 badge is sold as a X525-4AT. If Phenol is submitted on a 525-1, there will be an additional fee. Contact our customer service group for more details.
4-Phenyl Cyclohexene	4994-16-5	521AT	521AT Badge	52.0			0.019 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	This Chemical is on the Organic Solvent Panel. OSP
4-Phenyl Cyclohexene #	4994-16-5	546AT #	546AT Badge	1.82			0.53 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	566AT	566AT Badge	7.28			0.13 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	525AT	525AT Badge	54.6			0.018 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	This Chemical is on the Organic Solvent Panel. OSP
Phenyl Ether	101-84-8	521AT	521AT Badge	41.6	OSHA 1 PPM	ACGIH CEILING 2 PPM	0.0065 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
Phenyl Ether	101-84-8	566AT	566AT Badge	6.71	OSHA 1 PPM	ACGIH CEILING 2 PPM	0.040 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
Phenyl Ether #	101-84-8	525AT #	525AT Badge	43.7	OSHA 1 PPM	ACGIH CEILING 2 PPM	0.0062 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
O-Phthalaldehyde	643-79-8	571AT	571AT Badge	6.18	JOHNSON 0.019 MG/M3	J & J 0.148 MG/M3	0.0027 MG/M3	0.008		10	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations.
O-Phthalaldehyde	643-79-8	580AT	580AT Badge	54.8	JOHNSON 0.019 MG/M3	J & J 0.148 MG/M3	0.00030 MG/M3	0.008		10	MOD OSHA 64	OPA	Cidex OPA	The 580 badge has been replaced with the 581. The 580 information will be availableuntinl the last 580 lot expires.OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations.

Assay Technology Inc - Sampling Guide

 # - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed.
Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

OSP = Organic Solvent Panel. See X525-25AT

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
O-Phthalaldehyde #	643-79-8	581AT #	581AT Badge	57.5	JOHNSON 0.019 MG/M3	J & J 0.148 MG/M3	0.00029 MG/M3	0.008		10	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations.
Alpha-Pinene	80-56-8	521AT	521AT Badge	54.5			0.0055 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Alpha-Pinene	80-56-8	546AT	546AT Badge	1.96			0.15 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Alpha-Pinene #	80-56-8	566AT #	566AT Badge	7.86			0.038 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Alpha-Pinene	80-56-8	525AT	525AT Badge	57.2			0.0052 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene	127-91-3	521AT	521AT Badge	54.5			0.0055 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene	127-91-3	546AT	546AT Badge	1.96			0.15 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene #	127-91-3	566AT #	566AT Badge	7.86			0.038 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene	127-91-3	525AT	525AT Badge	57.2			0.0052 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
1-Propanol	71-23-8	521AT	521AT Badge	78.6	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.017 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
1-Propanol #	71-23-8	546AT #	546AT Badge	2.96	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.46 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
1-Propanol	71-23-8	566AT	566AT Badge	11.8	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.11 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
1-Propanol	71-23-8	525AT	525AT Badge	82.5	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.016 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
Propionaldehyde #	123-38-6	571AT #	571AT Badge	9.58	ACGIH 20 PPM		0.0092 PPM	0.1		10	MOD EPA TO-11	Aldehyde		
Propionaldehyde	123-38-6	580AT	580AT Badge	72.9	ACGIH 20 PPM		0.0012 PPM	0.1		10	MOD EPA TO-11	Aldehyde		The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Propionaldehyde	123-38-6	581AT	581AT Badge	76.5	ACGIH 20 PPM		0.0011 PPM	0.1		10	MOD EPA TO-11	Aldehyde		
Propyl Acetate #	109-60-4	546AT #	546AT Badge	2.27	OSHA 200 PPM	ACGIH CEILING 250 PPM	0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	566AT	566AT Badge	9.08	OSHA 200 PPM	ACGIH CEILING 250 PPM	0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	521AT	521AT Badge	60.8	OSHA 200 PPM	ACGIH CEILING 250 PPM	0.0082 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	525AT	525AT Badge	63.8	OSHA 200 PPM	ACGIH CEILING 250 PPM	0.0078 PPM	1		6	AT L-OV (GC/FID)	OV List A		
N-Propyl Bromide	106-94-5	521AT	521AT Badge	56.3	ACGIH 0.1 PPM		0.015 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide	106-94-5	546AT	546AT Badge	2.07	ACGIH 0.1 PPM		0.40 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide	106-94-5	566AT	566AT Badge	8.26	ACGIH 0.1 PPM		0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide #	106-94-5	525AT #	525AT Badge	59.1	ACGIH 0.1 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
Propylene Glycol Methyl Ether	107-98-2	546AT	546AT Badge	2.42	ACGIH 50 PPM	ACGIH CEILING 150 PPM	0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether #	107-98-2	566AT #	566AT Badge	9.66	ACGIH 50 PPM	ACGIH CEILING 150 PPM	0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether	107-98-2	521AT	521AT Badge	60.0	ACGIH 50 PPM	ACGIH CEILING 150 PPM	0.019 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether	107-98-2	525AT	525AT Badge	63.0	ACGIH 50 PPM	ACGIH CEILING 150 PPM	0.018 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Oxide #	75-56-9	546AT #	546AT Badge	3.01	OSHA 100 PPM		0.29 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	566AT	566AT Badge	12.1	OSHA 100 PPM		0.073 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	521AT	521AT Badge	72.9	OSHA 100 PPM		0.012 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	525AT	525AT Badge	76.5	OSHA 100 PPM		0.011 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylenimine #	75-55-8	585AT #	585AT Badge	10.0	OSHA 2 PPM		0.018 PPM	0.2		10	MOD OSHA 60	Amine		
Pyridine	110-86-1	546AT	546AT Badge	2.58	OSHA 5 PPM		0.22 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine	110-86-1	566AT	566AT Badge	10.3	OSHA 5 PPM		0.056 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine	110-86-1	521AT	521AT Badge	68.0	OSHA 5 PPM		0.0085 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine #	110-86-1	525AT #	525AT Badge	71.4	OSHA 5 PPM		0.0081 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Sevoflurane #	28523-86-6	571AT #	571AT Badge	7.89			0.097 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Ultane	
Stoddard Solvent	8052-41-3	546AT	546AT Badge	1.76	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	47 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
Stoddard Solvent #	8052-41-3	566AT #	566AT Badge	7.03	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	12 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
Stoddard Solvent	8052-41-3	521AT	521AT Badge	50.8	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	1.6 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
Stoddard Solvent	8052-41-3	525AT	525AT Badge	53.3	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	1.6 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
Styrene	100-42-5	521AT	521AT Badge	55.6	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0044 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Styrene	100-42-5	546AT	546AT Badge	2.30	OSHA 100 PPM	OSHA CEILING 200 PPM	0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Styrene #	100-42-5	566AT #	566AT Badge	9.21	OSHA 100 PPM	OSHA CEILING 200 PPM	0.027 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Styrene	100-42-5	525AT	525AT Badge	58.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0042 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
t-1,3,3,3-Tetrafluoro-1-Propene #	29118-24-9	549AT #	549AT Badge	0.600			0.74 PPM	1		10	MOD OSHA 103	Anesthetic Gas		Not validated on the 546, 566, 525 nor 521 badges.
1,1,1,2-Tetrafluoroethane #	811-97-2	549AT #	549AT Badge	0.670			0.75 PPM	1		10	AT L-OV (GC/FID)	Freon	HFC-134a	Not validated on the 546, 566, 525 nor 521 badges.
Tetrahydrofuran	109-99-9	521AT	521AT Badge	74.0	OSHA 200 PPM	ACGIH CEILING 100 PPM	0.0076 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Tetrahydrofuran #	109-99-9	546AT #	546AT Badge	2.70	OSHA 200 PPM	ACGIH CEILING 100 PPM	0.21 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		
Tetrahydrofuran	109-99-9	566AT	566AT Badge	10.8	OSHA 200 PPM	ACGIH CEILING 100 PPM	0.052 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		
Tetrahydrofuran	109-99-9	525AT	525AT Badge	77.7	OSHA 200 PPM	ACGIH CEILING 100 PPM	0.0073 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
O-Tolualdehyde	529-20-4	571AT	571AT Badge	6.30			0.20 PPM	3		6	MOD EPA TO-11	Aldehyde		
M-Tolualdehyde #	620-23-5	571AT #	571AT Badge	6.29			0.20 PPM	3		10	MOD EPA TO-11	Aldehyde		
M-Tolualdehyde	620-23-5	580AT	580AT Badge	56.7			0.022 PPM	3		10	MOD EPA TO-11	Aldehyde		The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
M-Tolualdehyde	620-23-5	581AT	581AT Badge	59.5			0.021 PPM	3		10	MOD EPA TO-11	Aldehyde		
Toluene	108-88-3	521AT	521AT Badge	66.2	OSHA 200 PPM		0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Toluene	108-88-3	546AT	546AT Badge	2.37	OSHA 200 PPM		0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Toluene #	108-88-3	566AT #	566AT Badge	9.48	OSHA 200 PPM		0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Toluene	108-88-3	525AT	525AT Badge	69.5	OSHA 200 PPM		0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Total Hydrocarbons	8002-05-9	521AT	521AT Badge	58.0			1.4 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals (aromatic and aliphatic hydrocarbons may be combined while alcohols, ketones, and acrylates cannot). Contact customer service with questions.
Total Hydrocarbons	8002-05-9	546AT	546AT Badge	2.50			33 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals (aromatic and aliphatic hydrocarbons may be combined while alcohols, ketones, and acrylates cannot). Contact customer service with questions.
Total Hydrocarbons #	8002-05-9	566AT #	566AT Badge	9.88			8.4 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals (aromatic and aliphatic hydrocarbons may be combined while alcohols, ketones, and acrylates cannot). Contact customer service with questions.
Total Hydrocarbons	8002-05-9	525AT	525AT Badge	60.9			1.4 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals (aromatic and aliphatic hydrocarbons may be combined while alcohols, ketones, and acrylates cannot). Contact customer service with questions.
1,1,1-Trichloroethane	71-55-6	521AT	521AT Badge	57.4	OSHA 350 PPM	ACGIH STEL 450 PPM	0.020 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	This Chemical is on the Organic Solvent Panel. OSP
1,1,1-Trichloroethane #	71-55-6	546AT #	546AT Badge	1.98	OSHA 350 PPM	ACGIH STEL 450 PPM	0.58 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	
1,1,1-Trichloroethane	71-55-6	566AT	566AT Badge	7.93	OSHA 350 PPM	ACGIH STEL 450 PPM	0.14 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	
1,1,1-Trichloroethane	71-55-6	525AT	525AT Badge	60.3	OSHA 350 PPM	ACGIH STEL 450 PPM	0.019 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	This Chemical is on the Organic Solvent Panel. OSP
1,1,2-Trichloroethane	79-00-5	566AT	566AT Badge	7.58	OSHA 10 PPM		0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichloroethane	79-00-5	521AT	521AT Badge	54.9	OSHA 10 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichloroethane #	79-00-5	546AT #	546AT Badge	1.90	OSHA 10 PPM		0.40 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichloroethane	79-00-5	525AT	525AT Badge	57.6	OSHA 10 PPM		0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Trichloroethylene	79-01-6	521AT	521AT Badge	69.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.011 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	This Chemical is on the Organic Solvent Panel. OSP
Trichloroethylene	79-01-6	546AT	546AT Badge	2.15	OSHA 100 PPM	OSHA CEILING 200 PPM	0.36 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	
Trichloroethylene #	79-01-6	566AT #	566AT Badge	8.60	OSHA 100 PPM	OSHA CEILING 200 PPM	0.090 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	
Trichloroethylene	79-01-6	525AT	525AT Badge	72.9	OSHA 100 PPM	OSHA CEILING 200 PPM	0.011 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	This Chemical is on the Organic Solvent Panel. OSP

Assay Technology Inc - Sampling Guide

 # - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed.
Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

OSP = Organic Solvent Panel. See X525-25AT

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
1,1,2-Trichlorotrifluoroethane	76-13-1	521AT	521AT Badge	55.6	OSHA 1000 PPM	ACGIH STEL 1250 PPM	0.017 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1,2-Trichlorotrifluoroethane #	76-13-1	546AT #	546AT Badge	1.67	OSHA 1000 PPM	ACGIH STEL 1250 PPM	0.57 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1,2-Trichlorotrifluoroethane	76-13-1	566AT	566AT Badge	6.69	OSHA 1000 PPM	ACGIH STEL 1250 PPM	0.14 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1,2-Trichlorotrifluoroethane	76-13-1	525AT	525AT Badge	58.4	OSHA 1000 PPM	ACGIH STEL 1250 PPM	0.016 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
Triethylenetetramine #	112-24-3	585AT #	585AT Badge	6.05			0.14 PPM	2.5		10	MOD OSHA 60	Amine		
1,2,4-Trimethylbenzene	95-63-6	521AT	521AT Badge	56.7	ACGIH 25 PPM		0.0075 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on with list C chemicals.
1,2,4-Trimethylbenzene	95-63-6	546AT	546AT Badge	2.09	ACGIH 25 PPM		0.20 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on with list C chemicals.
1,2,4-Trimethylbenzene #	95-63-6	566AT #	566AT Badge	8.36	ACGIH 25 PPM		0.051 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on with list C chemicals.
1,2,4-Trimethylbenzene	95-63-6	525AT	525AT Badge	59.5	ACGIH 25 PPM		0.0071 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on with list C chemicals.
2,2,4-Trimethylpentane	540-84-1	546AT	546AT Badge	2.21			0.60 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	521AT	521AT Badge	42.6			0.031 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	566AT	566AT Badge	8.60			0.16 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	525AT	525AT Badge	44.7			0.030 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
Valeraldehyde	110-62-3	580AT	580AT Badge	65.0	ACGIH 50 PPM		0.0091 PPM	1		10	MOD EPA TO-11	Aldehyde		The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Valeraldehyde #	110-62-3	571AT #	571AT Badge	7.21	ACGIH 50 PPM		0.082 PPM	1		10	MOD EPA TO-11	Aldehyde		
Valeraldehyde	110-62-3	581AT	581AT Badge	68.3	ACGIH 50 PPM		0.0087 PPM	1		10	MOD EPA TO-11	Aldehyde		
Vinyl Acetate	108-05-4	521AT	521AT Badge	67.4	ACGIH 10 PPM	ACGIH CEILING 15 PPM	0.0088 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	546AT	546AT Badge	2.47	ACGIH 10 PPM	ACGIH CEILING 15 PPM	0.24 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate #	108-05-4	566AT #	566AT Badge	9.89	ACGIH 10 PPM	ACGIH CEILING 15 PPM	0.060 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	525AT	525AT Badge	70.8	ACGIH 10 PPM	ACGIH CEILING 15 PPM	0.0084 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Chloride	75-01-4	546AT	546AT Badge	2.90	OSHA 1 PPM		0.14 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		It is not recommended that Vinyl ChlOride be collected on the 521/525 badge.
Vinyl Chloride #	75-01-4	566AT #	566AT Badge	11.6	OSHA 1 PPM		0.035 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		It is not recommended that Vinyl ChlOride be collected on the 521/525 badge.
Vinyl Toluene	25013-15-4	521AT	521AT Badge	57.0	OSHA 100 PPM	ACGIH CEILING 100 PPM	0.0038 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinyl Toluene	25013-15-4	546AT	546AT Badge	2.11	OSHA 100 PPM	ACGIH CEILING 100 PPM	0.10 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinyl Toluene #	25013-15-4	566AT #	566AT Badge	8.43	OSHA 100 PPM	ACGIH CEILING 100 PPM	0.026 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinyl Toluene	25013-15-4	525AT	525AT Badge	59.9	OSHA 100 PPM	ACGIH CEILING 100 PPM	0.0036 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
N-Vinyl-2-Pyrrolidinone	88-12-0	521AT	521AT Badge	58.2			0.024 PPM	3		6	AT L-OV (GC/FID)	OV List A		
N-Vinyl-2-Pyrrolidinone	88-12-0	525AT	525AT Badge	61.1			0.023 PPM	3		6	AT L-OV (GC/FID)	OV List A		
4-Vinylcyclohexene	100-40-3	546AT	546AT Badge	2.20	ACGIH 0.1 PPM		0.064 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
4-Vinylcyclohexene	100-40-3	566AT	566AT Badge	8.80	ACGIH 0.1 PPM		0.016 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
4-Vinylcyclohexene	100-40-3	521AT	521AT Badge	58.7	ACGIH 0.1 PPM		0.0024 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
4-Vinylcyclohexene #	100-40-3	525AT #	525AT Badge	61.6	ACGIH 0.1 PPM		0.0023 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
Vinylidene Chloride	75-35-4	546AT	546AT Badge	2.33	ACGIH 5 PPM		0.27 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride	75-35-4	566AT	566AT Badge	9.32	ACGIH 5 PPM		0.068 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride	75-35-4	521AT	521AT Badge	60.9	ACGIH 5 PPM		0.010 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride #	75-35-4	525AT #	525AT Badge	63.9	ACGIH 5 PPM		0.0099 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
VM&P Naptha #	8032-32-4	566AT #	566AT Badge	8.92	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	9.3 MG/M3	40		6	MOD NIOSH 1550	OV List C		Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
VM&P Naptha	8032-32-4	521AT	521AT Badge	53.4	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	1.6 MG/M3	40		6	MOD NIOSH 1550	OV List C		Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
VM&P Naptha	8032-32-4	546AT	546AT Badge	2.23	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	37 MG/M3	40		6	MOD NIOSH 1550	OV List C		Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
VM&P Naptha	8032-32-4	525AT	525AT Badge	56.1	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	1.5 MG/M3	40		6	MOD NIOSH 1550	OV List C		Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
Xylenes	1330-20-7	521AT	521AT Badge	57.6	OSHA 100 PPM	ACGIH STEL 150 PPM	0.0083 PPM	1		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP
Xylenes	1330-20-7	546AT	546AT Badge	1.89	OSHA 100 PPM	ACGIH STEL 150 PPM	0.25 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Xylenes #	1330-20-7	566AT #	566AT Badge	7.54	OSHA 100 PPM	ACGIH STEL 150 PPM	0.064 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Xylenes	1330-20-7	525AT	525AT Badge	60.5	OSHA 100 PPM	ACGIH STEL 150 PPM	0.0079 PPM	1		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the Organic Solvent Panel. OSP