

Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-25AT

- Indicates the badge / chemical combination we recommend.

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.

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		
1,1,1,2-Tetrafluoroethane #	811-97-2	549AT #	549AT Badge				0.670		1	10	AT-LOV (GC/FID)	OV List B	Freon	HFC-134a	Not validated on the 546, 566, 525 nor 521 badges. Sampling rate has been lab verified.	
Acetaldehyde #	75-07-0	571AT #	571AT Badge	11.7	OSHA 200 PPM	25 PPM	0.30 PPM		3	10	MOD EPA TO-11	OV List A	Aldehyde		Sampling rate has been lab verified.	
Acetaldehyde	75-07-0	558AT #	558AT Badge	84.7	OSHA 200 PPM	25 PPM	0.041 PPM		3	10	MOD EPA TO-11	OV List A	Aldehyde			
Acetic Acid	64-19-7	46-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM		0.025 PPM		3	24	MOD OSHA 1865G	OV List A	Acetic Acid	Propenal		
Acetic Acid #	64-19-7	543AT #	543AT Badge	11.0	OSHA 10 PPM		0.23 PPM		3	6	MOD OSHA 1865G	OV List A	Acetic Acid	Propenal	Charcoal media encased in PTFE (eg AT 546, 566, and 525) can be used with a GC	
Acetone #	67-64-1	546AT #	546AT Badge	3.23	OSHA 1000 PPM		0.54 PPM		2	6	AT-LOV (GC/FID)	OV List A			Sampling rate has been lab verified.	
Acetone	67-64-1	566AT #	566AT Badge	12.9	OSHA 1000 PPM		0.14 PPM		2	6	AT-LOV (GC/FID)	OV List A			Sampling rate has been lab verified.	
Acetone	67-64-1	46-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1000 PPM		0.018 PPM		2	10	AT-LOV (GC/FID)	OV List A				
Acetonitrile	67-64-1	525AT #	525AT Badge	87.2	OSHA 1000 PPM		0.33 PPM		2	7	AT-LOV (GC/FID)	OV List A			This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on	
Acetonitrile	75-05-8	546AT #	546AT Badge	3.48	OSHA 40 PPM		0.50 PPM		1.4	6	AT-LOV (GC/FID)	OV List A			Sampling rate has been lab verified.	
Acetonitrile #	75-05-8	566AT #	566AT Badge	13.9	OSHA 40 PPM		0.12 PPM		1.4	6	AT-LOV (GC/FID)	OV List A			Sampling rate has been lab verified.	
Acetonitrile	75-05-8	46-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 40 PPM		0.017 PPM		1.4	10	AT-LOV (GC/FID)	OV List A				
Acetonitrile #	75-05-8	525AT #	525AT Badge	98.3	OSHA 40 PPM		0.018 PPM		1.4	6	AT-LOV (GC/FID)	OV List A			Sampling rate has been lab verified.	
Acetophenone	98-06-2	566AT #	566AT Badge	8.00			0.26 PPM		5	6	AT-LOV (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	OV List A	Acrolein		Sampling rate has been lab verified.	
Acrolein	107-02-8	46-117	Tube, XAD-2 (2-HMP) 75-1150mg Tube		OSHA 0.1 PPM				0.5	10	MOD OSHA 52	OV List A	Acrolein			
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	46-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 2 PPM	OSHA CEILING 10 PPM	0.0096 PPM		1	20	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	546AT #	546AT Badge	3.01	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.26 PPM		0.9	6	AT-LOV (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-LOV (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-LOV (GC/FID)	OV List A				
Allyl Chloride	107-05-1	546AT #	546AT Badge	2.62	OSHA 2 PPM		0.28 PPM		1.1	6	AT-LOV (GC/FID)	OV List A				
Allyl Chloride	107-05-1	566AT #	566AT Badge	10.5	OSHA 2 PPM		0.079 PPM		1.1	6	AT-LOV (GC/FID)	OV List A				
Allyl Chloride #	107-05-1	525AT #	525AT Badge	84.8	OSHA 2 PPM		0.0084 PPM		1.1	6	AT-LOV (GC/FID)	OV List A				
Aluminum	7429-90-5	537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 15 MG/M3		0.0021 MG/M3		2	1000	6	MOD OSHA ID 125	ICP			
Aluminum	7429-90-5	8114K SMR TAB	Smear Tab		OSHA 15 MG/M3				2	6	MOD OSHA ID 125	ICP				
Aluminum Chloride	7446-70-0	8114K SMR TAB	Smear Tab						5	6	MOD OSHA ID 125	ICP			8114K: JS-024 + 8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.	
Aluminum Chloride	7446-70-0	537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0052 MG/M3		5	1000	6	MOD OSHA ID 125	ICP			
Ammonia	7664-41-7	584AT #	584AT Badge	28.8	OSHA 50 PPM		0.31 PPM		3	6	MOD OSHA 188	OV List A	Ammonia		Sampling rate has been lab verified.	
Ammonia	7664-41-7	46-101-06	Tube, Silica Gel-w/H2SO4 100-1200mg Tube	0.10 L/min	OSHA 50 PPM		0.090 PPM		3	24	MOD OSHA ID 188	OV List A	Ammonia			
Amyl Acetate	628-63-7	546AT #	546AT Badge	2.01			0.18 PPM		0.9	6	AT-LOV (GC/FID)	OV List A				
Amyl Acetate #	628-63-7	566AT #	566AT #	8.03			0.044 PPM		0.9	6	AT-LOV (GC/FID)	OV List A				
Antimony	7440-36-0	8114K SMR TAB	Smear Tab		OSHA 0.5 MG/M3				0.5	6	MOD OSHA ID 125	ICP				
Antimony	7440-36-0	537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.5 MG/M3		0.00052 MG/M3		0.5	1000	6	MOD OSHA ID 125	ICP			8114K: JS-024 + 8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Arsenic	7440-38-2	8109K G WIPE	Ghost Wipe		OSHA 0.01 MG/M3				0.5	6	MOD OSHA ID 125	ICP			8109K: JS-025 + 8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened	
Arsenic	7440-38-2	8114K SMR TAB	Smear Tab		OSHA 0.01 MG/M3				0.5	6	MOD OSHA ID 125	ICP			8114K: JS-024 + 8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water	
Arsenic	7440-38-2	537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.01 MG/M3		0.00052 MG/M3		0.5	1000	6	MOD OSHA ID 125	ICP			
Barium	7440-39-3	8114K SMR TAB	Smear Tab		NIOSH 0.5 MG/M3				0.05	6	MOD OSHA ID 125	ICP			8114K: JS-024 + 8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water	
Barium	7440-39-3	537MCE208	Cassette, MCE Cassette	2.0 L/min	NIOSH 0.5 MG/M3		0.00052 MG/M3		0.05	1000	6	MOD OSHA ID 125	ICP			
Benzaldehyde #	100-52-7	571AT #	571AT Badge	6.97			0.021 PPM		0.3	10	MOD EPA TO-11	OV List A	Aldehyde	Benzal		
Benzaldehyde	100-52-7	581AT #	581AT Badge	65.8			0.0022 PPM		0.3	10	MOD EPA TO-11	OV List A	Aldehyde	Benzal		
Benzene	71-43-2	546AT #	546AT Badge	2.42	OSHA 1 PPM	OSHA STEL 5 PPM	0.11 PPM		0.4	6	AT-LOV (GC/FID)	OV List A			Sampling rate has been lab verified.	
Benzene	71-43-2	566AT #	566AT Badge	9.69	OSHA 1 PPM	OSHA STEL 5 PPM	0.027 PPM		0.4	6	AT-LOV (GC/FID)	OV List A			Sampling rate has been lab verified.	
Benzene #	71-43-2	46-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.0026 PPM		0.4	10	AT-LOV (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-LOV (GC/FID)	OV List A			This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on	
Benzyl Alcohol #	100-51-6	566AT #	566AT Badge	8.50			0.24 PPM		5	6	AT-LOV (GC/FID)	OV List A				
Benzyl Alcohol	100-51-6	546AT #	546AT Badge	2.13			1.1 PPM		5	6	AT-LOV (GC/FID)	OV List A				
Benzyl Alcohol	100-51-6	525AT #	525AT Badge	65.4			0.036 PPM		5	6	AT-LOV (GC/FID)	OV List A				
Benzyl Chloride	100-44-7	546AT #	546AT Badge	2.03	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.20 PPM		1	6	AT-LOV (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-LOV (GC/FID)	OV List B				
Benzyl Chloride	100-44-7	46-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0040 PPM		1	10	AT-LOV (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-LOV (GC/FID)	OV List B				
Beryllium	7440-41-7	8114K SMR TAB	Smear Tab		OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3			0.05	6	MOD OSHA ID 125	ICP			Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide	
Beryllium	7440-41-7	8109K G WIPE	Ghost Wipe		OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3			0.05	6	MOD OSHA ID 125	ICP			Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide	
Beryllium	7440-41-7	537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3	0.00052 MG/M3		0.05	1000	6	MOD OSHA ID 125	ICP			
Boron	7440-42-8	8114K SMR TAB	Smear Tab						0.5	6	MOD OSHA ID 125	ICP			8114K: JS-024 + 8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water	
Boron	7440-42-8	537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3		0.5	1000	6	MOD OSHA ID 125	ICP			
Bromine	7726-95-6	95-9006	Cassette, PTFE Ag membrane	1.0 L/min	OSHA 0.1 PPM		0.0016 PPM		5	360	6	MOD NIOSH 6011	OV List A	Halogen		
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-LOV (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 #	12.8	OSHA 1 PPM	OSHA STEL 5 PPM	0.044 PPM		0.6	6	AT-LOV (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	46-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.0057 PPM		0.6	10	AT-LOV (GC/FID)	OV List A			It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.	
2-Butanol	78-99-2	546AT #	546AT Badge	10.7	OSHA 150 PPM	NIOSH STEL 150 PPM	0.19 PPM		0.7	6	AT-LOV (GC/FID)	OV List A	sec-Butyl Alcohol			
2-Butanol #	78-99-2	566AT #	566AT Badge	10.7	OSHA 150 PPM	NIOSH STEL 150 PPM	0.045 PPM		0.7	6	AT-LOV (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-LOV (GC/FID)	OV List A	Butyl Cellosolve		Sampling rate has been lab verified.	
2-Butoxyethanol #	111-76-2	566AT #	566AT Badge	8.43	OSHA 50 PPM		0.26 PPM		5	6	AT-LOV (GC/FID)	OV List A	Butyl Cellosolve		Sampling rate has been lab verified.	
2-Butoxyethanol	111-76-2	46-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 50 PPM		0.022 PPM		5	10	AT-LOV (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-LOV (GC/FID)	OV List A	Butyl Cellosolve		Sampling rate has been lab verified.	
N-Butyl Acetate #	123-86-4	546AT #	546AT Badge	1.99	OSHA 150 PPM		0.21 PPM		0.9	6	AT-LOV (GC/FID)	OV List A				
N-Butyl Acetate	123-86-4	566AT #	566AT Badge	7.94	OSHA 150 PPM		0.050 PPM		0.9	6	AT-LOV (GC/FID)	OV List A				
N-Butyl Acetate	123-86-4	46-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 150 PPM		0.0039 PPM		0.9	10	AT-LOV (GC/FID)	OV List A				
N-Butyl Acetate	123-86-4	525AT #	525AT Badge													

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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
Cadmium	7440-43-9	IS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.005 MG/M3		0.00052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
Calcium	7440-70-2	J8114K SMR TAB	Smear Tab				10			6	MOD OSHA ID 125	ICP		
Calcium	7440-70-2	IS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021 MG/M3	2	1000	6	MOD OSHA ID 125	ICP		J8114K: JS-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
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 Black	1333-86-4	IS37PVCW250	Cassette, PVC Pre-wt Cassette	2.0 L/min	OSHA 3.5 MG/M3		0.021 MG/M3	20	1000	6	MOD NIOSH 5000	Gravimetric		
Carbon Tetrachloride	56-23-5	546AT	546AT Badge		1.85	OSHA 10 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	0.22 PPM	5		6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM	OSHA CEILING 25 PPM	0.017 PPM	5	10	6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride #	56-23-5	525AT #	525AT Badge		68.9	OSHA 10 PPM	0.024 PPM	5		6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Chlorine	7782-50-5	J5-9006	Cassette, PTFE Ag membrane	1.0 L/min		OSHA CEILING 1 PPM	0.0014 PPM	2	360	6	MOD NIOSH 6011	Halogen		
Chlorobenzene	108-90-7	546AT	546AT Badge		2.16		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	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 75 PPM	OSHA CEILING 50 PPM	0.0027 PPM	0.6	10	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	546AT	546AT Badge		2.10	OSHA CEILING 50 PPM	0.61 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	Sampling rate has been lab verified.
Chloroform	67-66-3	566AT	566AT Badge		8.39	OSHA CEILING 50 PPM	0.15 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	Sampling rate has been lab verified.
Chloroform	67-66-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA CEILING 50 PPM	OSHA CEILING 50 PPM	0.013 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Trichloromethane	
Chloroform #	67-66-3	525AT #	525AT Badge		73.9	OSHA CEILING 50 PPM	0.017 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Chromium	7440-47-3	J8109K G WIPE	Ghost Wipe			OSHA 1 MG/M3		0.05		6	MOD OSHA ID 125	ICP		J8109K: JS-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary.
Chromium	7440-47-3	J8114K SMR TAB	Smear Tab			OSHA 1 MG/M3		0.5		6	MOD OSHA ID 125	ICP		
Chromium	7440-47-3	IS37MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 1 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		J8114K: JS-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Chromium Hexavalent Ion	18540-29-9	IS37PVC250	Cassette, PVC Cassette	2.0 L/min	OSHA 0.005 MG/M3	OSHA CEILING 0.1 MG/M3			960	10	MOD OSHA 215	Subcontract		For OSHA 215: Samples collected on PVC filters from welding operations must be submitted within 8 days of sampling. Samples collected on PVC filters from
Cobalt	7440-48-4	J8114K SMR TAB	Smear Tab			OSHA 0.1 MG/M3		0.2		6	MOD OSHA ID 125	ICP		
Cobalt	7440-48-4	IS37MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.1 MG/M3	0.00052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		J8114K: JS-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Copper	7440-50-8	J8114K SMR TAB	Smear Tab			OSHA 0.1 MG/M3		0.5		6	MOD OSHA ID 125	ICP		
Copper	7440-50-8	IS37MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.1 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		J8114K: JS-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Cresol, Total	1319-77-3	J6-095	Tube, XAD-7 50-1100mg Tube	0.10 L/min			0.0047 PPM	1	24	10	MOD OSHA 32	Phenol		
Cresol, Total	1319-77-3	596AT	596AT Badge		86.2		0.027 PPM	5		10	MOD OSHA 32	Phenol		
Cresol, Total #	1319-77-3	525AT #	525AT Badge		86.2		0.027 PPM	5		10	MOD OSHA 32	Phenol		Cresol on a 525 badge is sold as a X525-4AT. If Chesol is submitted on a 525-1,
Crotonaldehyde	4170-30-3	571AT #	571AT Badge		8.59	OSHA 2 PPM	0.0042 PPM	0.05		10	MOD EPA TO-11	Aldehyde		
Crotonaldehyde	4170-30-3	581AT	581AT Badge		71.5	OSHA 2 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	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0021 PPM	0.5	10	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		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.
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		Sampling rate has been lab verified.
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		Sampling rate has been lab verified.
Cyclohexane	110-82-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 300 PPM	0.0036 PPM	0.6	10	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		Sampling rate has been lab verified.
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	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	546AT	546AT Badge		2.34	OSHA 50 PPM	0.13 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexanone #	108-94-1	566AT #	566AT Badge		9.37	OSHA 50 PPM	0.033 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexanone	108-94-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 50 PPM	0.0031 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	525AT #	525AT Badge		66.8	OSHA 50 PPM	0.0047 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Cyclohexylamine #	108-91-8	585AT #	585AT Badge		7.41		0.035 PPM	0.5		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Desflurane #	57041-67-5	574AT #	574AT Badge		8.56		0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Suprane	Sampling rate has been lab verified.
Desflurane	57041-67-5	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.018 PPM	3	12	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		0.058 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	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	546AT #	546AT Badge		6.78	OSHA 50 PPM	0.091 PPM	1		6	AT L-OV (GC/FID)	OV List A		
1,2-Dichlorobenzene	95-50-1	546AT	546AT Badge		1.89	OSHA 50 PPM	0.18 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	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	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	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	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 100 PPM	0.010 PPM	2	10	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	546AT	546AT Badge		2.31	OSHA 50 PPM	0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
1,2-Dichloroethane #	107-06-2	566AT #	566AT Badge		9.22	OSHA 50 PPM	0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
1,2-Dichloroethane	107-06-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA CEILING 100 PPM	0.010 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	EDC	
1,2-Dichloroethane	107-06-2	525AT	525AT Badge		63.5	OSHA 50 PPM	0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
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	This is a sum of cis-1,2-Dichloroethylene (CAS # 156-59-2) and trans-1,2-Dichloroethylene (CAS # 156-60-5)
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	This is a sum of cis-1,2-Dichloroethylene (CAS # 156-59-2) and trans-1,2-Dichloroethylene (CAS # 156-60-5)
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		

Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-2SAT

- Indicates the badge / chemical combination we recommend.

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.

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
Diethylamine #	109-89-7	S85AT #			OSHA 25 PPM		0.040 PPM	0.5	10	10	MOD OSHA 60	Amine		
Diethylene Glycol Butyl Ether	112-34-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.031 PPM	10	10	6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether #	112-34-5	S66AT #	S66AT Badge	7.19			0.04 PPM	10	6	6	AT-LOV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether	112-34-5	S46AT #	S46AT Badge	1.80			1.7 PPM	10	6	6	AT-LOV (GC/FID)	OV List A	Butyl Carbitol	
Diethylenetriamine #	111-40-0	S85AT #			OSHA CEILING 10 PPM		0.020 PPM	0.3	10	10	MOD OSHA 60	Amine		
Diisobutyl Ketone #	108-83-8	S66AT #	S66AT Badge	7.69	OSHA 50 PPM		0.042 PPM	0.9	6	6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Diisobutyl Ketone	108-83-8	S46AT #	S46AT Badge	1.92	OSHA 50 PPM		0.17 PPM	0.9	6	6	AT-LOV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Diisobutyl Ketone	108-83-8	S25AT #	S25AT Badge	56.4	OSHA 50 PPM		0.0057 PPM	0.9	6	6	AT-L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Dimethylamine #	121-40-3	S85AT #			OSHA 10 PPM		0.021 PPM	0.3	10	10	MOD OSHA 60	Amine		
N-N-Dimethylalanine	121-69-7	S46AT #	S46AT Badge	2.08			0.12 PPM	0.6	6	6	AT-LOV (GC/FID)	OV List B		
N-N-Dimethylalanine	121-69-7	S66AT #	S66AT Badge	8.32			0.030 PPM	0.6	6	6	AT L-OV (GC/FID)	OV List B		
N-N-Dimethylalanine #	121-69-7	S25AT #	S25AT Badge	59.4			0.0042 PPM	0.6	6	6	AT L-OV (GC/FID)	OV List B		
N-N-Dimethylformamide	68-12-2	S46AT #	S46AT Badge	2.68	OSHA 10 PPM		0.34 PPM	1.3	6	6	AT L-OV (GC/FID)	OV List A	DMF	Sampling rate has been lab verified.
N-N-Dimethylformamide	68-12-2	S66AT #	S66AT Badge	10.7	OSHA 10 PPM		0.08 PPM	1.3	6	6	AT-LOV (GC/FID)	OV List A	DMF	Sampling rate has been lab verified.
N-N-Dimethylformamide	68-12-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM		0.0091 PPM	1.3	10	6	AT-LOV (GC/FID)	OV List A	DMF	
N-N-Dimethylformamide #	68-12-2	S25AT #	S25AT Badge	73.1	OSHA 10 PPM		0.012 PPM	1.3	6	6	AT L-OV (GC/FID)	OV List A	DMF	Sampling rate has been lab verified.
Dimethylsulfoxide #	67-68-5	S66AT #	S66AT Badge	10.4			0.63 PPM	10	10	10	AT L-OV (GC/FID)		DMSO	Analysis only compatible with Methyl Ethyl Ketoxime. Analyzed in the California
Dimethylsulfoxide	67-68-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.065 PPM	10	10	10	AT-LOV (GC/FID)		DMSO	
1,4-Dioxane	123-91-1	S46AT #	S46AT Badge	2.44	OSHA 200 PPM	NIOSH CEILING 1 PPM	0.12 PPM	2	6	6	AT-LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,4-Dioxane	123-91-1	S66AT #	S66AT Badge	9.77	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.12 PPM	2	6	6	AT-LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,4-Dioxane	123-91-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.012 PPM	2	10	6	AT-LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,4-Dioxane #	123-91-1	S25AT #	S25AT Badge	60.1	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.019 PPM	2	6	6	AT-LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,3-Dioxolane	646-06-0	S66AT #	S66AT Badge	10.2			0.067 PPM	1	6	6	AT-L-OV (GC/FID)	OV List A		
1,3-Dioxolane	646-06-0	S46AT #	S46AT Badge	2.60			0.26 PPM	1	6	6	AT-LOV (GC/FID)	OV List A		
Dipropylene Glycol Methylether	34590-94-8	S46AT #	S46AT Badge	1.88	OSHA 100 PPM		3.1 PPM	17	6	6	AT-LOV (GC/FID)	OV List B		
Dipropylene Glycol Methylether #	34590-94-8	S66AT #	S66AT Badge	7.52	OSHA 100 PPM		0.78 PPM	17	6	6	AT-LOV (GC/FID)	OV List B		
Dipropylene Glycol Methylether	34590-94-8	S25AT #	S25AT Badge	55.8	OSHA 100 PPM		0.10 PPM	17	6	6	AT L-OV (GC/FID)	OV List B		
Dust, Respirable	1318-93-0	J537PVCW350	Cassette, PVC Pre-wt Cassette	2.5 L/min	OSHA 5 MG/M3		0.017 MG/M3	20	400	6	MOD NIOSH 600	Gravimetric		Attach a cyclone and adjust flow according to the manufacturers cyclone instructions for use. Assay rents SKC Aluminum Cyclones. Assay part # R792 / SKC part #R25-01-01.
Dust, Total	1318-93-0	J537PVCW250	Cassette, PVC Pre-wt Cassette		OSHA 15 MG/M3			20	6	6	MOD NIOSH 500	Gravimetric		
Enfuran #	13838-16-9	S74AT #	S74AT Badge	8.15			0.10 PPM	3	6	6	MOD OSHA 103	Anesthetic Gas	Ethrane	Sampling rate has been lab verified.
Enfuran	13838-16-9	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.017 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Ethrane	
Epichlorohydrin	106-89-8	S46AT #	S46AT Badge	2.39	OSHA 5 PPM		0.28 PPM	1.2	6	6	AT-LOV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	S66AT #	S66AT Badge	9.54	OSHA 5 PPM		0.066 PPM	1.2	6	6	AT-LOV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 5 PPM		0.0066 PPM	1.2	10	6	AT-LOV (GC/FID)	OV List A		
Epichlorohydrin #	106-89-8	S25AT #	S25AT Badge	65.0	OSHA 5 PPM		0.010 PPM	1.2	6	6	AT L-OV (GC/FID)	OV List A		
Ethanolamine #	141-43-5	S85AT #	S85AT Badge	7.70	OSHA 3 PPM		0.032 PPM	0.3	10	10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
2-Ethoxyethanol	110-80-5	S46AT #	S46AT Badge	2.42	OSHA 200 PPM		0.47 PPM	2	6	6	AT-LOV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol #	110-80-5	S66AT #	S66AT Badge	9.66	OSHA 200 PPM		0.12 PPM	2	6	6	AT-LOV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol	110-80-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.011 PPM	2	10	6	AT-LOV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol	110-80-5	S25AT #	S25AT Badge	65.5	OSHA 200 PPM		0.017 PPM	2	6	6	AT L-OV (GC/FID)	OV List A	Cellosolve	
Ethyl Acetate #	141-78-6	S46AT #	S46AT Badge	2.25	OSHA 400 PPM		0.52 PPM	2	6	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethyl Acetate	141-78-6	S66AT #	S66AT Badge	8.98	OSHA 400 PPM		0.13 PPM	2	6	6	AT-LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethyl Acetate	141-78-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 400 PPM		0.012 PPM	2	10	6	AT-L-OV (GC/FID)	OV List A		
Ethyl Acetate	141-78-6	S25AT #	S25AT Badge	71.6	OSHA 400 PPM		0.016 PPM	2	6	6	AT-LOV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Ethyl Acrylate	140-88-5	S46AT #	S46AT Badge	2.29	OSHA 25 PPM		0.20 PPM	0.9	6	6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate	140-88-5	S66AT #	S66AT Badge	9.16	OSHA 25 PPM		0.050 PPM	0.9	6	6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate #	140-88-5	S25AT #	S25AT Badge	61.7	OSHA 25 PPM		0.0074 PPM	0.9	6	6	AT-L-OV (GC/FID)	OV List A		
Ethyl Alcohol	64-17-5	S46AT #	S46AT Badge	3.39	OSHA 1000 PPM		3.3 PPM	10	6	6	AT-LOV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	S66AT #	S66AT Badge	13.5	OSHA 1000 PPM		0.82 PPM	10	6	6	AT-LOV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	J6-009	Tube, Charcoal 200-1400mg Tube	0.10 L/min	OSHA 1000 PPM		0.11 PPM	10	10	6	AT L-OV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	S25AT #	S25AT Badge	83.4	OSHA 1000 PPM		0.13 PPM	10	6	6	AT-LOV (GC/FID)	OV List A	Ethanol	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
Ethyl Ether #	60-29-7	S46AT #	S46AT Badge	2.82	OSHA 400 PPM		0.73 PPM	3	6	6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	S66AT #	S66AT Badge	11.3	OSHA 400 PPM		0.18 PPM	3	6	6	AT-LOV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	J6-009	Tube, Charcoal 200-1400mg Tube	0.10 L/min	OSHA 400 PPM		0.021 PPM	3	10	6	AT-LOV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	S25AT #	S25AT Badge	76.4	OSHA 400 PPM		0.027 PPM	3	6	6	AT-LOV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Methacrylate #	97-63-2	S66AT #	S66AT Badge	8.41			0.053 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	S46AT #	S46AT Badge	2.10			0.21 PPM	1	6	6	AT-L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	S25AT #	S25AT Badge	57.9			0.0077 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
2-Ethyl-1-Hexylamine	10475-6	S85AT #	S85AT Badge	6.50			0.18 PPM	3	10	10	MOD OSHA 60	Amine		
2-Ethylacrolein	922-63-4	S92AT #	S92AT Badge	8.10			0.037 PPM	0.5	10	10	MOD OSHA 52	Acrolein		
Ethylamine #	75-04-7	S85AT #	S85AT Badge	11.1	OSHA 10 PPM		0.031 PPM	0.3	10	10	MOD OSHA 60	Amine		
Ethylbenzene	100-41-4	S46AT #	S46AT Badge	2.23	OSHA 100 PPM	NIOSH 125 PPM	0.11 PPM	0.5	6	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethylbenzene #	100-41-4	S66AT #	S66AT Badge	8.91	OSHA 100 PPM	NIOSH 125 PPM	0.027 PPM	0.5	6	6	AT-LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethylbenzene	100-41-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH 125 PPM	0.0024 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		
Ethylbenzene	100-41-4	S25AT #	S25AT Badge	63.6	OSHA 100 PPM	NIOSH 125 PPM	0.0038 PPM	0.5	6	6	AT-LOV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Ethylene Chlorohydrin	107-07-3	S46AT #	S46AT Badge	2.56	OSHA 5 PPM		0.35 PPM	1.4	6	6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin	107-07-3	S66AT #	S66AT Badge	10.2	OSHA 5 PPM		0.087 PPM	1.4	6	6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin #	107-07-3	S25AT #	S25AT Badge	68.1	OSHA 5 PPM		0.013 PPM	1.4	6	6	AT-LOV (GC/FID)	OV List A		
Ethylene Glycol Dimethyl Ether	110-71-4	S46AT #	S46AT Badge	2.42			0.21 PPM	1	6	6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Glycol Dimethyl Ether #	110-71-4	S66AT #	S66AT Badge	9.66			0.058 PPM	1	6	6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Glycol Dimethyl Ether	110-71-4	S25AT #	S25AT Badge	65.5			0.0086 PPM	1	6	6	AT-LOV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Oxide	75-21-8	J6-ORBO-78	Tube, ORBO 78 Hbr Treated Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.012 PPM	1	24	6	MOD ASTM D5578	Ethylene Oxide		
Ethylene Oxide #	75-21-8	S55AT #	S55AT Badge	12.4	OSHA 1 PPM	OSHA STEL 5 PPM	0.011 PPM	0.12	6	6	MOD ASTM D5578	Ethylene Oxide		Sampling rate has been lab verified.
Ethylamine #	107-15-3	S85AT #	S85AT Badge	9.59	OSHA 10 PPM		0.027 PPM	0.3	10	10	MOD OSHA 60	Amine		
Formaldehyde #	50-00-0	S71AT #	S71AT Badge	18.2	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.010 PPM	0.1	6	6	MOD OSHA 1007	Aldehyde	Formalin	For more information about using badges for formaldehyde/Formalin, go to https://www.assaytech.com/product/571-aldehyde-monitor/ Sampling rate has been lab verified.
Formaldehyde	50-00-0	S81AT #	S81AT Badge	124	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.0014 PPM	0.1	6	6	MOD OSHA 1007	Aldehyde	Formalin	The S80 badge has been replaced by the S81 badge. For more information about using badges for formaldehyde/Formalin, go to https://www.assaytech.com/product/571-aldehyde-monitor/ Sampling rate has been lab verified.
Formaldehyde	50-00-0	J6-119	Tube, Silica Gel-DNPH Tube	0.10 L/min										

Assay Technology Inc - Sampling Guide

- Indicates the badge / chemical combination we recommend.

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.

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-Heptanone	110-43-0	525AT	525AT Badge	53.6			0.0058 PPM	0.7		6	AT LOV (GC/FID)	OV List A	Methyl amyl Ketone	
Hexamethylene Diisocyanate	822-06-0	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min		NIOSH 0.005 PPM	0.00024 PPM	0.8	240	10	MOD OSHA 42	Isocyanates	HDI	Sample openface (See method)
Hexanol	66-25-1	571AT #	571AT Badge	6.48			0.24 PPM	3		10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	
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	546AT #	546AT Badge	2.47	OSHA 500 PPM		0.14 PPM	0.6		6	AT LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
N-Hexane	110-54-3	566AT	566AT Badge	9.88	OSHA 500 PPM		0.036 PPM	0.6		6	AT LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
N-Hexane	110-54-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 500 PPM		0.0035 PPM	0.6	10	6	AT LOV (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 LOV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
2-Hexanone #	591-78-6	566AT #	566AT Badge	9.16	OSHA 100 PPM		0.028 PPM	0.5		6	AT LOV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	546AT	546AT Badge	2.29	OSHA 100 PPM		0.11 PPM	0.5		6	AT LOV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	J6-001	Tube, Charcoal 50-100mg Tube	0.025 L/min	OSHA 100 PPM		0.015 PPM	0.5	10	6	AT LOV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	525AT	525AT Badge	78.8	OSHA 100 PPM		0.0032 PPM	0.5		6	AT LOV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
Hydrobromic Acid	10035-10-6	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min		OSHA 3 PPM	0.016 PPM	5	100	6	MOD NIOSH 3903	Acid	HBr, Hydrogen Bromide	
Hydrochloric Acid	7647-01-0	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min		OSHA CEILING 3 PPM	0.014 PPM	2	100	6	MOD NIOSH 3903	Acid	HCl, Hydrogen Chloride, Muriatic acid	
Hydrofluoric Acid	7664-39-3	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min		OSHA 3 PPM	0.025 PPM	2	100	6	MOD NIOSH 3903	Acid	HF, Hydrogen Fluoride	
Hydrogen Peroxide #	7722-84-1	587AT #	587AT #	137	OSHA 1 PPM		0.020 PPM	1.8		6	MOD OSHA V6	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.
Hydrogen Sulfide	7783-06-4	J6-ORBO-32	Tube, ORBO 32 Charcoal Tube	0.20 L/min		OSHA CEIL 20 PPM	0.064 PPM	8.5	40	6	MOD NIOSH 6013	H2S		Order Kit: J8112K, which includes a cassette (J537PP2 10) that traps any particulate sulfate present which would cause a high bias. Only the J6-ORBO 32 tube is analyzed. Not validated on the 546, 566, 525 nor 521 badges.
Indium	7440-74-6	J8114K SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Indium	7440-74-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Iodomethane	74-88-4	566AT	566AT Badge	7.40	OSHA 5 PPM		0.48 PPM	10		10	AT LOV (GC/FID)			
Iron	7439-89-6	J8114K SMR TAB	Smear Tab					2		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Iron	7439-89-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021 MG/M3	2	1000	6	MOD OSHA ID 125	ICP		
Iron(III) Oxide	1309-37-1	J8114K SMR TAB	Smear Tab					3		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Iron(III) Oxide	1309-37-1	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0031 MG/M3	3	1000	6	MOD OSHA ID 125	ICP		
Isomyl Alcohol #	123-51-3	566AT #	566AT Badge	9.77	OSHA 100 PPM		0.053 PPM	0.9		6	AT LOV (GC/FID)	OV List A		
Isomyl Alcohol	123-51-3	546AT	546AT Badge	2.44	OSHA 100 PPM		0.21 PPM	0.9		6	AT LOV (GC/FID)	OV List A		
Isomyl Alcohol	123-51-3	525AT	525AT Badge	78.7	OSHA 100 PPM		0.0068 PPM	0.9		6	AT LOV (GC/FID)	OV List A		
Isobutyl Acetate #	110-19-0	546AT #	546AT Badge	2.13	OSHA 150 PPM		0.21 PPM	1		6	AT LOV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	566AT	566AT Badge	8.50	OSHA 150 PPM		0.052 PPM	1		6	AT LOV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	525AT	525AT Badge	63.6	OSHA 150 PPM		0.0069 PPM	1		6	AT LOV (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 LOV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isobutyl Alcohol #	78-83-1	566AT #	566AT Badge	10.7	OSHA 100 PPM		0.045 PPM	0.7		6	AT LOV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isobutyl Alcohol	78-83-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0048 PPM	0.7	10	6	AT LOV (GC/FID)	OV List A	Isobutanol	
Isobutyl Alcohol	78-83-1	525AT	525AT Badge	67.2	OSHA 100 PPM		0.0072 PPM	0.7		6	AT LOV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isosulfane #	26675-46-7	574AT #	574AT Badge	7.87	CAL 2 PPM		0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Forane	
Isosulfane	26675-46-7	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min	CAL 2 PPM		0.017 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Forane	Sampling rate has been lab verified.
Isothorone	78-59-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM		0.0022 PPM	0.6	10	6	AT LOV (GC/FID)	OV List B		
Isothorone #	78-59-1	566AT #	566AT Badge	7.80	OSHA 25 PPM		0.028 PPM	0.6		6	AT LOV (GC/FID)	OV List B		
Isothorone	78-59-1	546AT	546AT Badge	1.95	OSHA 25 PPM		0.11 PPM	0.6		6	AT LOV (GC/FID)	OV List B		
Isothorone	78-59-1	525AT	525AT Badge	50.0	OSHA 25 PPM		0.0044 PPM	0.6		6	AT LOV (GC/FID)	OV List B		
Isothorone Diisocyanate	4098-71-9	J5-9002	Cassette, GFF w/ 1,-PP	0.10 L/min		0.02 PPM	0.00046 PPM	0.2	240	10	MOD OSHA 42	Isocyanates	IPDI	Sample openface (See method)
Isopropyl Acetate #	108-21-4	546AT #	546AT Badge	2.27	OSHA 250 PPM		0.22 PPM	1		6	AT LOV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	566AT	566AT Badge	9.08	OSHA 250 PPM		0.055 PPM	1		6	AT LOV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 250 PPM		0.0050 PPM	1	10	6	AT LOV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	525AT	525AT Badge	54.6	OSHA 250 PPM		0.0091 PPM	1		6	AT LOV (GC/FID)	OV List A		
Isopropyl Alcohol #	67-63-0	546AT #	546AT Badge	2.96	OSHA 400 PPM	NIOSH STEL 500 PPM	0.29 PPM	1		6	AT LOV (GC/FID)	OV List A	IPA	Sampling rate has been lab verified.
Isopropyl Alcohol	67-63-0	566AT	566AT Badge	11.8	OSHA 400 PPM	NIOSH STEL 500 PPM	0.072 PPM	1		6	AT LOV (GC/FID)	OV List A	IPA	Sampling rate has been lab verified.
Isopropyl Alcohol	67-63-0	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 400 PPM	NIOSH STEL 500 PPM	0.0085 PPM	1	10	6	AT LOV (GC/FID)	OV List A	IPA	
Isopropyl Alcohol	67-63-0	525AT	525AT Badge	67.2	OSHA 400 PPM	NIOSH STEL 500 PPM	0.013 PPM	1		6	AT LOV (GC/FID)	OV List A	IPA	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Additional DI water is not necessary.
Lead	7439-92-1	J8114K SMR TAB	Smear Tab			OSHA 0.05 MG/M3		0.5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Lead	7439-92-1	J8109K G WIPE	Ghost Wipe			OSHA 0.05 MG/M3		0.5		6	MOD OSHA ID 125	ICP		J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary.
Lead	7439-92-1	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.05 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
D-Limonene	5989-27-5	546AT	546AT Badge	1.96			0.38 PPM	2		6	AT LOV (GC/FID)	OV List A		
D-Limonene #	5989-27-5	566AT #	566AT Badge	7.86			0.095 PPM	2		6	AT LOV (GC/FID)	OV List A		
D-Limonene	5989-27-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0075 PPM	2	10	6	AT LOV (GC/FID)	OV List A		
D-Limonene	5989-27-5	525AT	525AT Badge	57.2			0.013 PPM	2		6	AT LOV (GC/FID)	OV List A		
Magnesium	7439-95-4	J8114K SMR TAB	Smear Tab			OSHA 15 MG/M3		0.5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Magnesium	7439-95-4	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 15 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Manganese	7439-96-5	J8114K SMR TAB	Smear Tab			OSHA CEILING 5 MG/M3		0.5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Manganese	7439-96-5	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA CEILING 5 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
4-MDI	101-68-8	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min		NIOSH 0.005 PPM	0.00081 PPM	0.4	240	10	MOD OSHA 47	Isocyanates	Methylene Bisphenyl Isocyanate	Sample openface (See method)
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		Sampling rate has been lab verified.
Mercury	7439-97-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.00021 MG/M3	0.02	1000	6	AT CVAF	Mercury		Particulates Only
Mercury	7439-97-6	J8114K SMR TAB	Smear Tab		OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.002	6		6	AT CVAF	Mercury		Particulates Only, Order Kit J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs
Mesitylene	108-67-8	546AT	546AT Badge	2.09	OSHA 25 PPM		1.0 PPM	5		6	AT LOV (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 LOV (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 LOV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	
Methamphetamine	537-46-2	J8109K G WIPE	Ghost Wipe					1		10	HPLC	HPLC		Buy wipe kit, J8110K. Kit contains a ghost wipe, wipe template, return vial, and the
2-Methoxyethanol #	109-86-4	566AT #	566AT Badge	10.5		OSHA 25 PPM		2.2		6	AT LOV (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 LOV (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 LOV (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 LOV (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 LOV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methoxyethyl Acetate	110-49-6	525AT	525AT Badge	59.9		OSHA 25 PPM	0.056 PPM	5		6	AT LOV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
Methyl Acetate #	79-20-9	566AT #	566AT Badge	10.3</										

Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-25AT

- Indicates the badge / chemical combination we recommend.

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.

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
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	2-Butanone, Ethyl methyl ketone, MEK	Sampling rate has been lab verified.
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	2-Butanone, Ethyl methyl ketone, MEK	Sampling rate has been lab verified.
Methyl Ethyl Ketone	78-93-3	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0067 PPM	0.8	10	6	AT L-OV (GC/FID)	OV List A	2-Butanone, Ethyl methyl ketone, MEK	
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	2-Butanone, Ethyl methyl ketone, MEK	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on
Methyl Ethyl Ketoxime	96-29-7	546AT #	546AT Badge	2.31			0.76 PPM	3		6	AT L-OV (GC/FID)			Analysis only compatible 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 compatible 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 compatible with DMSO. Analyzed in the California Lab.
Methyl Isoamyl Ketone #	110-12-3	546AT #	546AT Badge	8.58	OSHA 100 PPM		0.021 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	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		0.055 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		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		0.0090 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Ketone	108-10-1	546AT #	546AT Badge	2.29	OSHA 100 PPM		0.16 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone, MIBK	Sampling rate has been lab verified.
Methyl Isobutyl Ketone #	108-10-1	566AT #	566AT Badge	9.16	OSHA 100 PPM		0.039 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone, MIBK	Sampling rate has been lab verified.
Methyl Isobutyl Ketone	108-10-1	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0036 PPM	0.7	10	6	AT L-OV (GC/FID)	OV List A	Hexone, MIBK	
Methyl Isobutyl Ketone	108-10-1	525AT #	525AT Badge	66.2	OSHA 100 PPM		0.0054 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone, MIBK	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on
Methyl Methacrylate	80-62-6	546AT #	546AT Badge	2.29	OSHA 100 PPM		0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Methyl Methacrylate #	80-62-6	566AT #	566AT Badge	9.16	OSHA 100 PPM		0.056 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Methyl Methacrylate	80-62-6	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0051 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Methyl Methacrylate	80-62-6	525AT #	525AT Badge	63.0	OSHA 100 PPM		0.0083 PPM	1		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on
1-Methyl-2-Pyrrolidone	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-Pyrrolidone	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-Pyrrolidone	872-50-4	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	CAL 1 PPM		0.057 PPM	11	10	6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidone #	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		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	546AT #	546AT Badge	2.39	OSHA 25 PPM	OSHA STEL 125 PPM	0.19 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	Sampling rate has been lab verified.
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	Sampling rate has been lab verified.
Methylene Chloride	75-09-2	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM	OSHA STEL 125 PPM	0.018 PPM	3	10	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 OSP. Search for "OSP" to see all the chemicals together on
2-Methylpentane	107-83-5	566AT #	566AT Badge	9.90			0.12 PPM	2		6	AT L-OV (GC/FID)	OV List B		
2-Methylpentane	107-83-5	546AT #	546AT Badge	2.50			0.47 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Molybdenum	7439-98-7	#B114K SMR TAB	Smear Tab		OSHA 5 MG/M3		0.5			6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Molybdenum	7439-98-7	#337MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 5 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
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	Sampling rate has been lab verified.
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		Sampling rate has been lab verified.
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		Sampling rate has been lab verified.
Naphthalene	91-20-3	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM	NIOSH STEL 15 PPM	0.026 PPM	6.5	10	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 OSP. Search for "OSP" to see all the chemicals together on
Nickel	7440-02-0	#B114K SMR TAB	Smear Tab		OSHA 1 MG/M3		0.5			6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (#B055) available with shipment.
Nickel	7440-02-0	#337MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Nitric Acid	7697-37-2	56-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 2 PPM		0.020 PPM	5	100	6	MOD NIOSH 7903	Acid	HNO3	
Nitrogen Dioxide #	10102-44-0	594AT #	594AT Badge	22.2		OSHA CEILING 5 PPM	0.025 PPM	0.5		6	MOD OSHA 182	Nitrogen Dioxide		Sampling rate has been lab verified.
Nitrous Oxide #	10024-97-2	575AT #	575AT Badge	0.900			0.51 PPM	0.4		6	MOD OSHA 175	Nitrous oxide		A field blank is recommended with each monitoring event so the results can be
Nonane #	111-84-2	546AT #	546AT Badge	2.03			0.098 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	566AT #	566AT Badge	8.09			0.025 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	525AT #	525AT Badge	46.8			0.0042 PPM	0.5		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	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.0089 PPM	2	10	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		
Oil Mist (Gravimetric)	8012-95-1	537PVC/PW250	Cassette, PVC Pre-wt Cassette	2.0 L/min	OSHA 5 MG/M3	NIOSH STEL 10 MG/M3	0.021 MG/M3	20	300	6	MOD NIOSH 500	Gravimetric		Bulk reference material required. Recommended sent prior to sampling to ensure
Oil Mist (IR)	8012-95-1	537PVC250	Cassette, PVC Cassette	2.0 L/min	OSHA 5 MG/M3	NIOSH STEL 10 MG/M3			500	10	MOD NIOSH 5026			Bulk reference material required. Recommended sent prior to sampling to ensure
Organic Solvent Panel	9705-25	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. Sampling rate has been lab verified.
1,1,1,3,3-Pentafluoropropane #	460-73-1	549AT #	549AT Badge	0.610			0.62 PPM	1		10	AT L-OV (GC/FID)	OV List A	Freon	Not validated on the 546, 566, 525 nor 521 badges. Sampling rate has been lab verified.
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		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		0.046 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentanone	107-87-9	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0041 PPM	0.7	10	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		0.0062 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
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	Sampling rate has been lab verified.
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	Sampling rate has been lab verified.
Perchloroethylene	127-18-4	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0061 PPM	2	10	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 OSP. Search for "OSP" to see all the chemicals together on
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	Sampling rate has been lab verified.
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	Sampling rate has been lab verified.
PGMEA	108-65-6	56-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0039 PPM	1	10	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	Sampling rate has been lab verified.
pH	4711-4	#B109K G WIPE	Ghost Wipe				0.1			6	AT		p	

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- Indicates the badge / chemical combination we recommend.

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.

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
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	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		
Potassium	7440-09-7	J8114K SMR TAB	Smear Tab							10	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Potassium	7440-09-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.0026 MG/M3	2.5	1000	6	MOD OSHA ID 125	ICP		
Potassium Hydroxide	1310-58-3	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.016 MG/M3	15	1000	6	MOD OSHA ID 125			
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	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.014 PPM	1.6	10	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			0.0092 PPM	0.1		10	MOD EPA TO-11		Aldehyde	
Propionaldehyde	123-38-6	581AT	581AT Badge	76.5			0.0011 PPM	0.1		10	MOD EPA TO-11		Aldehyde	
Propyl Acetate #	109-60-4	546AT #	546AT Badge	2.27	OSHA 200 PPM		0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	566AT	566AT badge	9.08	OSHA 200 PPM		0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	525AT	525AT badge	63.8	OSHA 200 PPM		0.0078 PPM	1		6	AT L-OV (GC/FID)	OV List A		
N-Propyl Bromide	106-94-5	546AT	546AT Badge	2.07			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			0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide	106-94-5	J6-001	Tube, Charcoal 50-100mg Tube					2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide #	106-94-5	525AT #	525AT #	59.1			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			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			0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether	107-98-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.011 PPM	2	10	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			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		0.23 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	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0088 PPM	1	10	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		
Propylamine #	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		0.066 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		
Selenium	7782-49-2	J8114K SMR TAB	Smear Tab		OSHA 0.2 MG/M3			5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Selenium	7782-49-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.2 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Sevoflurane #	28523-86-6	574AT #	574AT badge	7.89			0.097 PPM	3		6	MOD OSHA 103		Anesthetic Gas	Ultrane
Sevoflurane	28523-86-6	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.015 PPM	3	12	6	MOD OSHA 103		Anesthetic Gas	Ultrane
Silver	7440-22-4	J8114K SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Silver	7440-22-4	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Sodium	7440-23-5	J8114K SMR TAB	Smear Tab					10		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Sodium	7440-23-5	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.010 MG/M3	10	1000	6	MOD OSHA ID 125	ICP		
Stoddard Solvent	8052-41-3	J6-001	Tube, Charcoal 50-100mg Tube	0.20 L/min	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	0.42 MG/M3	40	10	6	MOD NIOSH 1550	OV List C	Mineral Spirits	
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 #	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	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	
Strontium	7440-24-6	J8114K SMR TAB	Smear Tab					0.05		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Strontium	7440-24-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
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	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0024 PPM	0.5	10	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 OSP. Search for "OSP" to see all the chemicals together on
Sulfur Dioxide	7446-09-5	J6-080	Tube, Assayorb 747-KOH 50-1100mg Tube	0.10 L/min	OSHA 5 PPM		0.0040 PPM	0.5	12	6	MOD OSHA ID 200			
Sulfuric Acid	7664-93-9	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 1 MG/M3		0.052 MG/M3	5	100	6	MOD NIOSH 7903		Acid	H2SO4
2,4-TDI	584-84-9	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min		OSHA CEILING 0.02 PPM	0.000029 PPM	0.1	240	10	MOD OSHA 42		Isocyanates	Toluene-2,4-Diisocyanate
2,6-TDI	91-08-7	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min			0.000015 PPM	0.05	240	10	MOD OSHA 42		Isocyanates	Toluene-2,6-Diisocyanate
1,1,1,3-Tetrafluoro-1-Propene #	29138-24-9	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.
Tetrahydrofuran #	109-99-9	546AT #	546AT badge	2.70	OSHA 200 PPM		0.21 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tetrahydrofuran	109-99-9	566AT	566AT badge	10.8	OSHA 200 PPM		0.052 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tetrahydrofuran	109-99-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0057 PPM	0.8	10	6	AT L-OV (GC/FID)	OV List A		
Tetrahydrofuran	109-99-9	525AT	525AT badge	77.7	OSHA 200 PPM		0.0073 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Thallium	7440-28-0	J8114K SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Thallium	7440-28-0	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Tin	7440-31-5	J8114K SMR TAB	Smear Tab		OSHA 2 MG/M3			2		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Tin	7440-31-5	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 2 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Titanium	7440-32-6	J8114K SMR TAB	Smear Tab					0.2		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Titanium	7440-32-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
Titanium Dioxide	13463-67-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00010 MG/M3	0.1	1000	6	MOD OSHA ID 125	ICP		
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	581AT	581AT badge	59.5			0.021 PPM	3		10	MOD EPA TO-11		Aldehyde	
Toluene	108-88-3	546AT	546AT badge	2.37	OSHA 200 PPM	OSHA CEILING 300 PPM	0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Toluene #	108-88-3	566AT #	566AT badge	9.48	OSHA 200 PPM	OSHA CEILING 300 PPM	0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Toluene	108-88-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM	OSHA CEILING 300 PPM	0.011 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Toluene	108-88-3	525AT	525AT badge	69.5	OSHA 200 PPM	OSHA CEILING 300 PPM	0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on
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
Total Hydrocarbons #														

Assay Technology Inc - Sampling Guide

- Indicates the badge / chemical combination we recommend.

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.

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
1,1,1-Trichloroethane #	71-55-6	546AT #	546AT Badge	1.98	OSHA 350 PPM		0.58 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	Sampling rate has been lab verified.
1,1,1-Trichloroethane #	71-55-6	566AT #	566AT Badge	1.90	OSHA 10 PPM		0.40 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,1-Trichloroethane	71-55-6	566AT	566AT Badge	7.93	OSHA 350 PPM		0.14 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	Sampling rate has been lab verified.
1,1,1-Trichloroethane	71-55-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 350 PPM		0.011 PPM	3	10	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		0.019 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
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	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	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	Sampling rate has been lab verified.
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	Sampling rate has been lab verified.
Trichloroethylene	79-01-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0078 PPM	2	10	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 OSP. Search for "OSP" to see all the chemicals together on
1,1,2-Trichlorotrifluoroethane #	76-13-1	546AT #	546AT Badge	1.67	OSHA 1000 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		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		0.016 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
Triethanolamine	102-71-6	J57GFF203	Cassette, GFF Cassette	1.0 L/min			0.0085 PPM	25	120	10	MOD OSHA P2141			
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	546AT	546AT Badge	2.09			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			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	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0042 PPM	1	10	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			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	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	571AT #	571AT Badge	7.21			0.082 PPM	1		10	MOD EPA TO-11		Aldehyde	
Valeraldehyde	110-62-3	581AT	581AT Badge	68.3			0.0087 PPM	1		10	MOD EPA TO-11		Aldehyde	
Vanadium	7440-68-2	J8114K SMR TAB	Smear Tab				0.2			6	MOD OSHA ID 325		ICP	J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water!
Vanadium	7440-68-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00021 MG/M3	0.2	1000	6	MOD OSHA ID 125		ICP	
Vinyl Acetate	108-05-4	546AT	546AT Badge	2.47			0.24 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate #	108-05-4	566AT #	566AT Badge	9.89			0.060 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0059 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	525AT	525AT Badge	70.8			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	546AT	546AT Badge	2.11	OSHA 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		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		0.0036 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
N-Vinyl-2-Pyrrolidone	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			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			0.016 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
4-Vinylcyclohexene #	100-40-3	525AT #	525AT Badge	63.6			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			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			0.068 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride	75-35-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0063 PPM	1.2	10	6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride #	75-35-4	525AT #	525AT Badge	63.9			0.0099 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
VM&P Naphtha #	8032-32-4	566AT #	566AT Badge	8.92	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	0.3 MG/M3	40		6	MOD NIOSH 1550	OV List C	VMP Naphtha	
VM&P Naphtha	8032-32-4	J6-001	Tube, Charcoal 50-100mg Tube	0.20 L/min	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	0.42 MG/M3	40	10	6	MOD NIOSH 1550	OV List C	VMP Naphtha	
VM&P Naphtha	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	VMP Naphtha	
VM&P Naphtha	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	VMP Naphtha	
Xylenes #	1330-20-7	546AT	546AT Badge	1.89	OSHA 100 PPM	NIOSH STEL 150 PPM	0.25 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Xylenes #	1330-20-7	566AT #	566AT Badge	7.54	OSHA 100 PPM	NIOSH STEL 150 PPM	0.064 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Xylenes	1330-20-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH STEL 150 PPM	0.0048 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Xylenes	1330-20-7	525AT	525AT Badge	60.5	OSHA 100 PPM	NIOSH STEL 150 PPM	0.0079 PPM	1		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on
Zinc	7440-66-6	J8114K SMR TAB	Smear Tab				2			6	MOD OSHA ID 125		ICP	J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Zinc	7440-66-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125		ICP	
Zinc Chloride	7646-85-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.0010 MG/M3	1	1000	6	MOD OSHA ID 125		ICP	
Zinc Oxide	1314-13-2	J8114K SMR TAB	Smear Tab				3			6	MOD OSHA ID 125		ICP	J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Zinc Oxide	1314-13-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0010 MG/M3	1	1000	6	MOD OSHA ID 125		ICP	
Zinc	7440-66-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125		ICP	
Zinc Chloride	7646-85-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.0010 MG/M3	1	1000	6	MOD OSHA ID 125		ICP	
Zinc Oxide	1314-13-2	J8114K SMR TAB	Smear Tab				3			6	MOD OSHA ID 125		ICP	J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Zinc Oxide	1314-13-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0010 MG/M3	1	1000	6	MOD OSHA ID 125		ICP	