

# IH Sampling Guide

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
71-55-6	1,1,1-TRICHLOROETHANE	3500+/3510+	7.93	15000	99.90%	0.79	0.14	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
71-55-6	1,1,1-TRICHLOROETHANE	3501+/3511+	60.3	45000	102.80%	0.10	0.019	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
79-00-5	1,1,2-TRICHLOROETHANE	3500+/3510+	7.58	13000	98.60%	0.55	0.10	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
79-00-5	1,1,2-TRICHLOROETHANE	3501+/3511+	57.6	39000	99.00%	0.072	0.013	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
76-13-1	1,1,2-TRICHLOROTRIFLUOROETHANE	3500+/3510+	6.69	6900	97.60%	1.1	0.14	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
76-13-1	1,1,2-TRICHLOROTRIFLUOROETHANE	3501+/3511+	58.4	21000	98.00%	0.12	0.016	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
1717-00-6	1,1-DICHLORO-1-FLUOROETHANE	3500+	8.47					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
1717-00-6	1,1-DICHLORO-1-FLUOROETHANE	3501+	60.1					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-34-3	1,1-DICHLOROETHANE	3500+/3510+	9.22	8200	88.70%	0.45	0.11	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-34-3	1,1-DICHLOROETHANE	3501+/3511+	76.4	24000	89.00%	0.055	0.013	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
526-73-8	1,2,3-TRIMETHYLBENZENE	3500+	8.36					AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
95-63-6	1,2,4-TRIMETHYLBENZENE	3500+	8.36		98.10%	0.25	0.051	AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
95-63-6	1,2,4-TRIMETHYLBENZENE	3501+/3511+	59.5		98.00%	0.035	0.0071	AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
106-93-4	1,2-DIBROMOETHANE	3500+/3510+	6.67	15000	92.10%	0.94	0.12	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
106-93-4	1,2-DIBROMOETHANE	3501+/3511+	71.2		92.00%	0.088	0.011	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

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95-50-1	1,2-DICHLOROBENZENE	3500+/3510+	7.55	13000	98.77%	0.28	0.046	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
95-50-1	1,2-DICHLOROBENZENE	3501+/3511+	56.5	39000	99.00%	0.037	0.0061	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
107-06-2	1,2-DICHLOROETHANE	3500+/3510+	9.22	7600	98.30%	0.45	0.11	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
107-06-2	1,2-DICHLOROETHANE	3501+/3511+	63.5	22000	101.80%	0.066	0.016	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
540-59-0	1,2-DICHLOROETHYLENE	3500+/3510+	9.32	1300	99.30%	0.45	0.11	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
540-59-0	1,2-DICHLOROETHYLENE	3501+/3511+	75.8	3700	99.00%	0.055	0.014	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
78-87-5	1,2-DICHLOROPROPANE	3500+/3510+	7.98	15000	96.90%	0.52	0.11	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
78-87-5	1,2-DICHLOROPROPANE	3501+/3511+	60.8		97.00%	0.069	0.015	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
76-14-2	1,2-DICHLOROTETRAFLUOROETHANE	3500+	6.70	12600				AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
76-14-2	1,2-DICHLOROTETRAFLUOROETHANE	3501+	53.3								
106-99-0	1,3-BUTADIENE	3500+/3510+	12.8	500	84.70%	0.098	0.044	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
106-99-0	1,3-BUTADIENE	3501+	85.1					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	<b>3501+ not recommended for 1,3-Butadiene. Use a 3500+ instead.</b>
541-73-1	1,3-DICHLOROBENZENE	3501+	55.9					AT L-OV (GC/FID)			
141-93-5	1,3-DIETHYLBENZENE	3501+	57.4								
646-06-0	1,3-DIOXALANE	3501+	70.1								
646-06-0	1,3-DIOXOLANE	3500+	10.2		94.00%	0.20	0.067	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
106-46-7	1,4-DICHLOROBENZENE	3500+/3510+	7.55	13000	98.07%	0.28	0.046	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
106-46-7	1,4-DICHLOROBENZENE	3501+/3511+	56.5	39000	98.00%	0.037	0.0061	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
123-91-1	1,4-DIOXANE	3500+/3510+	9.77	15000	95.40%	0.43	0.12	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

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123-91-1	1,4-DIOXANE	3501+/3511+	60.1	45000	95.00%	0.069	0.019	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
111-78-4	1,5-CYCLOOCTADIENE	3501+	61.6								
5131-66-8	1-BUTOXY-2-PROPANOL	3501+	57.8					AT L-OV (GC/FID)			
109-69-3	1-CHLOROBUTANE	3500+	9.53					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-69-3	1-CHLOROBUTANE	3501+	65.0					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
321-38-0	1-FLUORONAPHTHALENE	3500+	7.39					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
90-12-0	1-METHYL NAPHTHALENE	3501+	54.2								
872-50-4	1-METHYL-2-PYRROLIDINONE	3500+/3510+	9.31		74.60%	2.5	0.61	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
872-50-4	1-METHYL-2-PYRROLIDINONE	3501+	63.9		75.00%	0.36	0.088	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
590-67-0	1-METHYLCYCLOHEXANOL	3501+	60.6					AT L-OV (GC/FID)			
591-49-1	1-METHYLENECYCLOHEXENE	3501+	64.2					AT L-OV (GC/FID)			
108-03-2	1-NITROPROPANE	3501+	65.8					AT L-OV (GC/FID)			
71-23-8	1-PROPANOL	3500+/3510+	11.8	5000	88.70%	0.28	0.11	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
71-23-8	1-PROPANOL	3501+/3511+	82.5	15000	89.00%	0.040	0.016	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
540-84-1	2,2,4-TRIMETHYLPENTANE	3500+	8.60		99.00%	0.73	0.16	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
540-84-1	2,2,4-TRIMETHYLPENTANE	3501+	44.7		99.00%	0.14	0.030	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
306-83-2	2,2-DICHLORO-1,1,1-TRIFLUOROETHANE	3501+	55.1					AT L-OV (GC/FID)			
79-29-8	2,3-DIMETHYLBUTANE	3501+	70.9								
625-86-5	2,5-DIMETHYLFURAN	3501+	64.2					AT L-OV (GC/FID)			
78-92-2	2-BUTANOL	3500+/3510+	10.7	9500	94.70%	0.14	0.045	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
78-92-2	2-BUTANOL	3501+	70.1					AT L-OV (GC/FID)			
111-76-2	2-BUTOXYETHANOL	3500+/3510+	8.43	15000	92.00%	1.2	0.26	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

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111-76-2	2-BUTOXYETHANOL	3501+/3511+	52.7	45000	88.10%	0.20	0.041	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
112-07-2	2-BUTOXYETHYL ACETATE	3500+	7.23					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
112-07-2	2-BUTOXYETHYL ACETATE	3501+	54.4					AT L-OV (GC/FID)			
95-57-8	2-CHLOROPHENOL	3501+	66.0								
110-80-5	2-ETHOXYETHANOL	3500+/3510+	9.66	15000	92.40%	0.43	0.12	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-80-5	2-ETHOXYETHANOL	3501+/3511+	65.5	45000	92.00%	0.064	0.017	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
111-15-9	2-ETHOXYETHYL ACETATE	3501+	57.8					AT L-OV (GC/FID)			
104-76-7	2-ETHYLHEXANOL	3500+	7.70					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
104-76-7	2-ETHYLHEXANOL	3501+	58.1					AT L-OV (GC/FID)			
103-11-7	2-ETHYLHEXYL ACRYLATE	3501+	52.1								
138495-42-8	2H-3H-PERFLUOROPENTANE	3500+	8.56					AT L-OV (GC/FID)			
138495-42-8	2H-3H-PERFLUOROPENTANE	3501+	74.8					AT L-OV (GC/FID)	STD		
110-43-0	2-HEPTANONE	3500+/3510+	8.58	15000	94.00%	0.17	0.036	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-43-0	2-HEPTANONE	3501+/3511+	53.6	45000	92.90%	0.027	0.0058	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
591-78-6	2-HEXANONE	3500+/3510+	9.16	15000	97.51%	0.11	0.028	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
591-78-6	2-HEXANONE	3501+/3511+	78.8	45000	98.00%	0.013	0.0032	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
818-61-1	2-HYDROXYETHYL ACRYLATE	3501+	60.3								
868-77-9	2-HYDROXYETHYL METHACRYLATE	3501+	58.1								
109-86-4	2-METHOXYETHANOL	3500+	10.5	15000	82.85%	0.44	0.14	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-86-4	2-METHOXYETHANOL	3501+	59.4	45000	83.00%	0.077	0.025	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-49-6	2-METHOXYETHYL ACETATE	3500+	8.00	15000	95.20%	1.3	0.27	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

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110-49-6	2-METHOXYETHYL ACETATE	3501+	59.9	45000	95.00%	0.17	0.036	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
137-32-6	2-METHYL-1-BUTANOL	3501+	70.7								
107-83-5	2-METHYLPENTANE	3500+	9.90		100.00%	0.42	0.12	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
107-83-5	2-METHYLPENTANE	3501+	66.6					AT L-OV (GC/FID)			
79-46-9	2-NITROPROPANE	3501+	65.8					AT L-OV (GC/FID)			
111-13-7	2-OCTANONE	3501+	58.4					AT L-OV (GC/FID)			
107-87-9	2-PENTANONE	3500+/3510+	9.89	15000	95.20%	0.15	0.042	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
107-87-9	2-PENTANONE	3501+/3511+	66.6	45000	95.00%	0.022	0.0062	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
122-99-6	2-PHENOXYETHANOL	3501+	56.9					GC/FID			
2807-30-9	2-PROPOXYETHANOL	3501+	62.5								
96-14-0	3-METHYL PENTANE	3501+	66.6								
598-75-4	3-METHYL-2-BUTANOL	3501+	66.0					AT L-OV (GC/FID)			
98-56-6	4-CHLOROBENZOTRIFLUORIDE	3501+	63.4					AT L-OV (GC/FID)			
4994-16-5	4-PHENYL CYCLOHEXENE	3500+/3510+	7.28		97.60%	0.86	0.13	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
4994-16-5	4-PHENYL CYCLOHEXENE	3501+/3511+	54.6		101.20%	0.11	0.018	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
100-40-3	4-VINYLCYCLOHEXENE	3500+	8.80		99.00%	0.071	0.016	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
100-40-3	4-VINYLCYCLOHEXENE	3501+/3511+	61.6		99.00%	0.010	0.0023	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
68526-84-1	7-METHYL-1-OCTANOL	3501+	56.2								
75-07-0	ACETALDEHYDE	3720+/3721+	11.7		100.00%	0.53	0.30	MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
67-64-1	ACETONE	3500+/3510+	12.9	4400	90.70%	0.32	0.14	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
67-64-1	ACETONE	3501+	87.2	13000	80.00%	0.048	0.020	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
67-64-1	ACETONE	3721+	9.60					MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
75-05-8	ACETONITRILE	3500+/3510+	13.9	130	85.50%	0.21	0.12	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

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75-05-8	ACETONITRILE	3501+	98.3	370	55.32%	0.030	0.018	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
98-86-2	ACETOPHENONE	3500+	8.00		87.00%	1.3	0.26	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
107-13-1	ACRYLONITRILE	3500+/3510+	12.9	4400	93.40%	0.16	0.074	MOD NIOSH 1604	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
107-13-1	ACRYLONITRILE	3501+/3511+	88.0	13000	68.60%	0.024	0.011	MOD NIOSH 1604	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
107-18-6	ALLYL ALCOHOL	3500+/3510+	12.1	3200	87.20%	0.16	0.065	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
107-18-6	ALLYL ALCOHOL	3501+/3511+	84.8	9400	87.00%	0.022	0.0093	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
107-05-1	ALLYL CHLORIDE	3500+/3510+	10.5	1900	97.60%	0.22	0.070	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
107-05-1	ALLYL CHLORIDE	3501+/3511+	84.8	5600	98.00%	0.027	0.0086	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
96-05-9	ALLYL METHACRYLATE	3501+	58.6								
80-56-8	ALPHA-PINENE	3500+	7.86		97.80%	0.21	0.038	AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
80-56-8	ALPHA-PINENE	3501+	57.2		98.00%	0.029	0.0052	AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
98-83-9	A-METHYLSTYRENE	3500+	8.08	13000				AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
98-83-9	A-METHYLSTYRENE	3501+	59.9					AT L-OV (GC/FID)			
628-63-7	AMYL ACETATE	3500+/3510+	8.03	15000	99.40%	0.23	0.044	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
628-63-7	AMYL ACETATE	3501+	58.1					AT L-OV (GC/FID)			
64742-95-6	AROMATIC 100 (SAME AS XYLENE)	3501+	59.5								
64742-94-5	AROMATIC 150	3501+	57.4								
100-52-7	BENZALDEHYDE	3720+/3721+	6.97		100.00%	0.090	0.021	MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
71-43-2	BENZENE	3500+/3510+	9.69	13000	96.70%	0.086	0.027	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
71-43-2	BENZENE	3501+/3511+	76.7	39000	99.00%	0.011	0.0034	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	



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1076-43-3	BENZENE-D6	3500+	9.58					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
140-11-4	BENZYL ACETATE	3501+	55.4					AT L-OV (GC/FID)			
100-51-6	BENZYL ALCOHOL	3500+	8.50		93.00%	1.2	0.28	AT L-OV (GC/FID)	Phenoxy		
100-51-6	BENZYL ALCOHOL	3501+	65.4		93.00%	0.16	0.036	AT L-OV (GC/FID)	Phenoxy		
100-44-7	BENZYL CHLORIDE	3500+/3510+	8.14	13000	100.00%	0.26	0.049	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
100-44-7	BENZYL CHLORIDE	3501+/3511+	59.2	39000	100.00%	0.035	0.0068	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
127-91-3	BETA-PINENE	3500+	7.86		96.60%	0.21	0.038	AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
127-91-3	BETA-PINENE	3501+	57.2		97.00%	0.029	0.0052	AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
92-52-4	BIPHENOL	3501+	55.0								
74-97-5	BROMOCHLOROMETHANE	3501+	58.2					AT L-OV (GC/FID)			
74-83-9	BROMOMETHANE	3501+	64.4					MOD NIOSH 2520			
141-32-2	BUTYL ACRYLATE	3500+/3510+	8.10	15000	99.10%	0.33	0.064	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
141-32-2	BUTYL ACRYLATE	3501+/3511+	58.4	45000	99.00%	0.046	0.0088	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-21-7	BUTYL BUTYRATE	3501+	56.2								
124-17-4	BUTYL CARBITOL ACETATE	3501+	62.5								
142-96-1	BUTYL ETHER	3501+	58.1					AT L-OV (GC/FID)			
2426-08-6	BUTYL GLYCIDYL ETHER	3500+/3510+	7.70	15000	75.10%	0.27	0.051	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
2426-08-6	BUTYL GLYCIDYL ETHER	3501+/3511+	58.6					AT L-OV (GC/FID)			
2426-08-6	BUTYL GLYCIDYL ETHER	3501+	58.1	45000	75.00%	0.036	0.0067	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
7397-62-8	BUTYL GLYCOLATE	3501+	57.8								
97-88-1	BUTYL METHACRYLATE	3500+	7.40		100.00%	0.37	0.063	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
97-88-1	BUTYL METHACRYLATE	3501+	56.5		100.00%	0.048	0.0082	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
98-51-1	BUTYL TOLUENE	3501+	55.8								
104-51-8	BUTYLBENZENE	3501+	57.4								
123-72-8	BUTYRALDEHYDE	3720+/3721+	8.20		100.00%	0.076	0.026	MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
79-92-5	CAMPHENE	3501+	57.2					AT L-OV (GC/FID)			
76-22-2	CAMPHOR	3500+/3510+	6.43	13000	94.70%	0.19	0.031	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
76-22-2	CAMPHOR	3501+/3511+	47.7		95.00%	0.026	0.0042	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
112-15-2	CARBITOL ACETATE	3501+	52.8					AT L-OV (GC/FID)			
56-23-5	CARBON TETRACHLORIDE	3500+/3510+	7.38	15000	97.70%	1.4	0.22	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
56-23-5	CARBON TETRACHLORIDE	3501+/3511+	68.9	45000	98.00%	0.15	0.024	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-90-7	CHLOROBENZENE	3500+/3510+	8.64	13000	94.00%	0.14	0.031	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-90-7	CHLOROBENZENE	3501+/3511+	62.2	39000	94.00%	0.020	0.0044	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
124-48-1	CHLORODIBROMOMETHANE	3501+	50.3					AT L-OV (GC/FID)			
67-66-3	CHLOROFORM	3500+/3510+	8.39	13200	99.00%	0.74	0.15	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
67-66-3	CHLOROFORM	3501+/3511+	73.9	68000	93.11%	0.085	0.017	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
126-99-8	CHLOROPRENE	3501+	65.9					AT L-OV (GC/FID)			
75-77-4	CHLOROTRIMETHYLSILANE	3501+	61.5								
1319-77-3	CRESOL, TOTAL	3501+	86.2		81.00%	0.12	0.027	MOD OSHA 32	Phenol	2 mL 15/85 CS2 / Methanol	
4170-30-3	CROTONALDEHYDE	3720+/3721+	8.59		88.50%	0.012	0.0042	MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
98-82-8	CUMENE	3500+/3510+	8.36		97.90%	0.12	0.025	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
98-82-8	CUMENE	3501+/3511+	54.6		98.00%	0.019	0.0039	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-82-7	CYCLOHEXANE	3500+/3510+	8.82	8200	99.70%	0.14	0.041	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-82-7	CYCLOHEXANE	3501+/3511+	59.9	24000	100.00%	0.021	0.0061	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-93-0	CYCLOHEXANOL	3500+/3510+	9.16	13000	88.30%	0.16	0.039	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-93-0	CYCLOHEXANOL	3501+/3511+	56.7	39000	88.00%	0.026	0.0063	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	



CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
108-94-1	CYCLOHEXANONE	3500+/3510+	9.37	13000	97.50%	0.13	0.033	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-94-1	CYCLOHEXANONE	3501+/3511+	66.8	39000	104.20%	0.019	0.0047	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-83-8	CYCLOHEXENE	3501+	67.6					AT L-OV (GC/FID)			
287-92-3	CYCLOPENTANE	3501+	71.5								
120-92-3	CYCLOPENTANONE	3501+	67.1					AT L-OV (GC/FID)			
142-92-0	CYCLOPENTENE	3501+	72.2								
541-02-6	DECAMETHYLCYCLOPENTASILOXANE	3501+	42.9					AT L-OV (GC/FID)			
57041-67-5	DESFLURANE	3500+	8.56	170	94.20%	0.73	0.11	MOD OSHA 103	Anesthetic Gas	2 mL of Toluene	
57041-67-5	DESFLURANE	3501+	53.6					MOD OSHA 103			
123-42-2	DIACETONE ALCOHOL	3500+/3510+	8.50	15000	87.40%	0.25	0.052	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
123-42-2	DIACETONE ALCOHOL	3501+	53.8					AT L-OV (GC/FID)			
75-27-4	DICHLOROBROMOMETHANE	3501+	54.0					AT L-OV (GC/FID)			
507-55-1	DICHLOROPENTAFLUOROPROPANE	3500+	7.80					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
507-55-1	DICHLOROPENTAFLUOROPROPANE	3501+	53.9					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
77-73-6	DICYCLOPENTADIENE	3500+/3510+	7.97		97.90%	0.52	0.097	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
77-73-6	DICYCLOPENTADIENE	3501+/3511+	57.8		98.00%	0.072	0.013	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
68476-34-6	DIESEL	3500+	5.84					AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
96-22-0	DIETHYL KETONE	3500+/3510+	9.47		99.00%	0.66	0.19	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
96-22-0	DIETHYL KETONE	3501+	66.6		99.00%	0.094	0.027	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
112-34-5	DIETHYLENE GLYCOL BUTYL ETHER	3500+/3510+	7.19		98.20%	2.9	0.44	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
112-34-5	DIETHYLENE GLYCOL BUTYL ETHER	3501+	54.2					AT L-OV (GC/FID)			
111-77-3	DIETHYLENE GLYCOL MONOMETHYL ETHER	3501+	67.2								
108-83-8	DIISOBUTYL KETONE	3500+/3510+	7.69	13000	99.38%	0.24	0.042	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
108-83-8	DIISOBUTYL KETONE	3501+/3511+	56.4		99.00%	0.033	0.0057	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
627-93-0	DIMETHYL ADIPATE	3501+	63.7								
624-92-0	DIMETHYL DISULFIDE	3501+	64.6					OSHA IN HOUSE			
1119-40-0	DIMETHYL GLUTARATE	3501+	64.5								
106-65-0	DIMETHYL SUCCINATE	3501+	65.3								
2439-35-2	DIMETHYLAMINOETHYL ACRYLATE	3501+	56.3								
123-19-3	DIPROPYL KETONE	3501+	60.6								
9009-42-1	DIPROPYLENE GLYCOL BUTYL ETHER	3501+	51.7								
88917-22-0	DIPROPYLENE GLYCOL METHYL ETHER ACETATE	3501+	51.7								
34590-94-8	DIPROPYLENE GLYCOL METHYLEETHER	3500+/3510+	7.52	13000	91.00%	4.7	0.78	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
34590-94-8	DIPROPYLENE GLYCOL METHYLEETHER	3501+/3511+	55.8	39000	91.00%	0.63	0.10	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
565-80-0	DISOPROPYL KETONE	3501+	60.6								
5989-27-5	D-LIMONENE	3500+/3510+	7.86		98.80%	0.53	0.095	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
5989-27-5	D-LIMONENE	3501+	57.2		99.00%	0.073	0.013	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
120-40-3	DODECANE	3500+	6.70					AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
120-40-3	DODECANE	3501+	53.3					AT L-OV (GC/FID)	OV List C	2 mL of Carbon Disulfide	
13838-16-9	ENFLURANE	3500+	8.15	175	98.30%	0.77	0.10	MOD OSHA 103	Anesthetic Gas	2 mL of Toluene	
13838-16-9	ENFLURANE	3501+	52.1					MOD OSHA 103			
106-89-8	EPICHLOROHYDRIN	3500+/3510+	9.54	13000	96.80%	0.26	0.069	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
106-89-8	EPICHLOROHYDRIN	3501+/3511+	65.0	39000	97.00%	0.038	0.010	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
763-69-9	ETHYL 3-ETHOXYPROPIONATE	3501+	56.0					AT L-OV (GC/FID)			
141-78-6	ETHYL ACETATE	3500+/3510+	8.98	13000	94.50%	0.46	0.13	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
141-78-6	ETHYL ACETATE	3501+/3511+	71.6	1800	88.86%	0.058	0.016	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
140-88-5	ETHYL ACRYLATE	3500+/3510+	9.16	15000	98.90%	0.20	0.050	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
140-88-5	ETHYL ACRYLATE	3501+/3511+	61.7	45000	99.00%	0.030	0.0074	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	



CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
75-21-8	ETHYLENE OXIDE	3550+/3551+	12.4	105	98.00%	0.020	0.011	MOD ASTM D5578	Ethylene Oxide	2 mL of 90/10 Toluene/Acetonitrile	
75-69-4	FLUOROTRICHLOROMETHANE	3500+	8.72	15000				AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-69-4	FLUOROTRICHLOROMETHANE	3501+	57.0					AT L-OV (GC/FID)			
50-00-0	FORMALDEHYDE	3720+/3721+	16.2	120	100.00%	0.013	0.010	MOD OSHA 1007	Aldehyde	1 mL Acetonitrile	
98-00-0	FURFURYL ALCOHOL	3501+	63.7								
96-48-0	GAMMA-BUTYROLACTONE	3501+	70.9								
8006-61-9	GASOLINE	3501+	64.9								
111-30-8	GLUTARALDEHYDE	3720+/3721+	7.24		100.00%	0.0023	0.00056	MOD OSHA 64	Aldehyde	1 mL Acetonitrile	
106-91-2	GLYCIDYL METHACRYLATE	3501+	56.5								
151-67-7	HALOTHANE	3500+	8.70	200	98.10%	0.96	0.12	MOD OSHA 103	Anesthetic Gas	2 mL of Toluene	
151-67-7	HALOTHANE	3501+	51.0					MOD OSHA 103			
142-82-5	HEPTANE	3500+/3510+	8.54	15000	98.80%	0.12	0.030	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
142-82-5	HEPTANE	3501+/3511+	56.3	45000	103.50%	0.019	0.0045	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
67-72-1	HEXACHLOROETHANE	3501+	48.4					MOD NIOSH 1003			
107-46-0	HEXAMETHYLDISILOXANE	3501+	54.4					AT L-OV (GC/FID)			
66-25-1	HEXANAL	3720+/3721+	6.48		100.00%	0.96	0.24	MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
68526-79-4	HEXANOL, BRANCHED AND LINEAR	3501+	62.8								
123-51-3	ISOAMYL ALCOHOL	3500+	9.77	15000	100.90%	0.19	0.053	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
123-51-3	ISOAMYL ALCOHOL	3501+	76.7	45000	101.00%	0.024	0.0068	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-28-5	ISOBUTANE	3501+	76.4								
110-19-0	ISOBUTYL ACETATE	3500+/3510+	8.50	15000	99.90%	0.25	0.052	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-19-0	ISOBUTYL ACETATE	3501+/3511+	63.6	45000	100.00%	0.033	0.0069	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
106-63-8	ISOBUTYL ACRYLATE	3501+	58.4								
78-83-1	ISOBUTYL ALCOHOL	3500+/3510+	10.7	13000	92.90%	0.14	0.045	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
78-83-1	ISOBUTYL ALCOHOL	3501+/3511+	67.2	1800	93.00%	0.022	0.0072	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
97-85-8	ISOBUTYL ISOBUTYRATE	3501+	56.2					AT L-OV (GC/FID)			

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
97-86-9	ISOBUTYL METHACRYLATE	3501+	56.5								
68526-85-2	ISODECANOL	3501+	54.6								
26675-46-7	ISOFLURANE	3500+	7.87	170	96.90%	0.79	0.11	MOD OSHA 103	Anesthetic Gas	2 mL of Toluene	
29590-42-9	ISOCTYL ACRYLATE	3501+	52.1					AT L-OV (GC/FID)			
64742-48-9	ISOPAR G	3501+	55.4								
6474-24-8	ISOPAR K	3500+	7.20					AT L-OV (GC/FID)	STD		
6474-24-8	ISOPAR K	3501+	54.6					AT L-OV (GC/FID)	STD		
64742-47-8	ISOPAR M	3501+	51.6								
78-59-1	ISOPHORONE	3500+/3510+	7.80	13000	96.00%	0.16	0.028	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
78-59-1	ISOPHORONE	3501+/3511+	50.0	39000	96.00%	0.025	0.0044	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
78-79-5	ISOPRENE	3501+	72.2					AT L-OV (GC/FID)			
108-21-4	ISOPROPYL ACETATE	3500+/3510+	9.08	13000	98.70%	0.23	0.055	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-21-4	ISOPROPYL ACETATE	3501+/3511+	54.6	1800	99.00%	0.038	0.0091	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
67-63-0	ISOPROPYL ALCOHOL	3500+/3510+	11.8	6300	86.50%	0.18	0.072	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
67-63-0	ISOPROPYL ALCOHOL	3501+/3511+	67.2	19000	73.00%	0.031	0.013	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-59-1	ISOPROPYL CELLOSOLVE	3501+	62.5					AT L-OV (GC/FID)			
108-20-3	ISOPROPYL ETHER	3500+	9.08	9500				AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
68526-86-3	ISOTRIDECYL ALCOHOL	3501+	50.8								
94114-58-6	JET FUEL	3500+	9.88					MOD NIOSH 1550	STD		
8008-20-6	KEROSENE	3501+	51.9								
6846-50-0	KODAFLEX TXIB	3501+	46.0					AT L-OV (GC/FID)			
108-67-8	MESITYLENE	3500+/3510+	8.36	15000	97.70%	1.2	0.25	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-67-8	MESITYLENE	3501+/3511+	59.5		98.00%	0.18	0.036	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
76-38-0	METHOXYFLURANE (METOFANE)	3501+	53.9								
79-20-9	METHYL ACETATE	3500+	10.3	1900	93.00%	0.40	0.13	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
79-20-9	METHYL ACETATE	3501+	70.1	5600				AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
96-33-3	METHYL ACRYLATE	3500+/3510+	9.89	6900	93.80%	0.42	0.12	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
96-33-3	METHYL ACRYLATE	3501+/3511+	68.5	21000	94.00%	0.061	0.017	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
67-56-1	METHYL ALCOHOL	3500+/3510+	16.2	3200	72.90%	0.39	0.29	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	Up to 15 minute sample time.
67-56-1	METHYL ALCOHOL	3501+	109	9400				AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	3501+ not recommended for Methyl Alcohol. Use a 3500+ instead.
74-87-3	METHYL CHLORIDE (CHLOROMETHANE)	3501+	80.5					AT L-OV (GC/FID)			
108-87-2	METHYL CYCLOHEXANE	3500+/3510+	9.32	13000	99.30%	0.11	0.028	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-87-2	METHYL CYCLOHEXANE	3501+/3511+	63.6	1800				AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
78-93-3	METHYL ETHYL KETONE	3500+/3510+	11.2	11300	95.60%	0.15	0.050	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
78-93-3	METHYL ETHYL KETONE	3501+/3511+	80.4	34000	87.00%	0.021	0.0070	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
78-93-3	METHYL ETHYL KETONE	3721+	8.11					MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
107-31-3	METHYL FORMATE	3501+	75.6					AT L-OV (GC/FID)			
534-22-5	METHYL FURAN	3501+	67.6								
74-88-4	METHYL IODINE (Iodomethane)	3501+	56.5					AT L-OV (GC/FID)			
110-12-3	METHYL ISOAMYL KETONE	3500+/3510+	8.58	15000	94.00%	0.24	0.052	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-12-3	METHYL ISOAMYL KETONE	3501+/3511+	60.6	45000	94.00%	0.034	0.0074	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-11-2	METHYL ISOBUTYL CARBINOL	3500+	9.08	13000	100.70%	0.23	0.055	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-11-2	METHYL ISOBUTYL CARBINOL	3501+	55.2	39000	101.00%	0.038	0.0090	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	



CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
108-10-1	METHYL ISOBUTYL KETONE	3500+/3510+	9.16	15000	95.90%	0.16	0.039	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-10-1	METHYL ISOBUTYL KETONE	3501+/3511+	66.2		92.02%	0.022	0.0054	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
2475-93-6	METHYL ISOBUTYL KETOXIME	3501+	60.2								
563-80-4	METHYL ISOPROPYL KETONE (3-METHYL-2-BUTANONE)	3501+	66.6								
80-62-6	METHYL METHACRYLATE	3500+/3510+	9.16	15000	97.00%	0.23	0.056	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
80-62-6	METHYL METHACRYLATE	3501+/3511+	63.0	45000	91.17%	0.033	0.0081	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-87-5	METHYLAL (DIMETHOXYMETHANE)	3500+	11.3	6300				AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-87-5	METHYLAL (DIMETHOXYMETHANE)	3501+	69.5					AT L-OV (GC/FID)			
96-37-7	METHYLCYCLOPENTANE	3501+	67.1								
75-09-2	METHYLENE CHLORIDE	3500+/3510+	9.54	4400	94.00%	0.66	0.19	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-09-2	METHYLENE CHLORIDE	3501+/3511+	72.7	13000	95.00%	0.086	0.025	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
1192-37-6	METHYLENECYCLOHEXANE	3501+	64.2					AT L-OV (GC/FID)			
620-23-5	M-TOLUALDEHYDE	3720+/3721+	6.29		100.00%	0.99	0.20	MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
91-20-3	NAPHTHALENE	3500+/3510+	8.10		69.10%	1.7	0.32	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
91-20-3	NAPHTHALENE	3501+/3511+	58.4		71.60%	0.23	0.044	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
123-86-4	N-BUTYL ACETATE	3500+/3510+	7.94	15000	99.80%	0.24	0.050	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
123-86-4	N-BUTYL ACETATE	3501+/3511+	55.9	45000	102.60%	0.034	0.0071	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
71-36-3	n-BUTYL ALCOHOL	3500+/3510+	10.7	13000	88.80%	0.20	0.064	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
71-36-3	n-BUTYL ALCOHOL	3501+/3511+	71.6	39000	99.90%	0.029	0.0096	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
110-54-3	n-HEXANE	3500+/3510+	9.88	15000	96.70%	0.13	0.036	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-54-3	n-HEXANE	3501+/3511+	60.9	45000	100.49%	0.021	0.0058	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
111-27-3	N-HEXANOL	3501+	62.8					AT L-OV (GC/FID)			
142-92-7	N-HEXYL ACETATE	3501+	65.4								
79-24-3	NITROETHANE	3500+	10.8					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-52-5	NITROMETHANE	3500+	11.2					AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-52-5	NITROMETHANE	3501+	75.2					AT L-OV (GC/FID)			
121-69-7	N-N-DIMETHYLANILINE	3500+/3510+	8.32	13000	82.20%	0.15	0.030	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
121-69-7	N-N-DIMETHYLANILINE	3501+/3511+	59.4		82.00%	0.021	0.0042	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
68-12-2	N-N-DIMETHYLFORMAMIDE	3500+/3510+	10.7	15000	71.30%	0.25	0.084	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
68-12-2	N-N-DIMETHYLFORMAMIDE	3501+/3511+	73.1	45000	65.10%	0.037	0.012	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
111-87-5	N-OCTYL ALCOHOL	3501+	58.1					AT L-OV (GC/FID)			
111-84-2	NONANE	3500+/3510+	8.09	15000	97.10%	0.13	0.025	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
111-84-2	NONANE	3501+/3511+	46.8	45000	97.00%	0.022	0.0042	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
106-94-5	N-PROPYL BROMIDE	3500+/3510+	8.26		98.00%	0.50	0.10	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
106-94-5	N-PROPYL BROMIDE	3501+/3511+	59.1		98.00%	0.071	0.014	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
88-12-0	N-VINYL-2-PYRROLIDINONE	3501+	61.1		66.00%	0.10	0.023	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
111-65-9	OCTANE	3500+/3510+	8.58	15000	98.90%	0.49	0.10	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
111-65-9	OCTANE	3501+/3511+	44.7	45000	99.00%	0.093	0.020	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
643-79-8	O-PHTHALALDEHYDE	3720+/3721+	6.18		100.50%	0.0027	0.00049	MOD OSHA 64	OPA		Cannot be combined with other aldehydes.
529-20-4	O-TOLUALDEHHYDE	3721+	6.30		100.00%	0.99	0.20	MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
109-66-0	PENTANE	3500+/3510+	10.8	7600	98.50%	0.12	0.039	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-66-0	PENTANE	3501+/3511+	69.9	22000	99.00%	0.018	0.0061	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
71-41-0	PENTANOL	3501+	70.7								
127-18-4	PERCHLOROETHYLENE	3500+/3510+	7.10	15000	98.20%	0.59	0.087	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
127-18-4	PERCHLOROETHYLENE	3501+/3511+	66.4	45000	101.20%	0.063	0.0093	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-65-6	PGMEA	3500+/3510+	7.98	13000	96.10%	0.26	0.048	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-65-6	PGMEA	3501+/3511+	57.8		90.00%	0.036	0.0067	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-95-2	PHENOL	3500+	9.46					MOD OSHA 32	Phenol	2 mL 15/85 CS2 / Methanol	Phenol can be collected using the 3501+ (preferred) or 3500+, but not with other organic vapors.
108-95-2	PHENOL	3501+	90.3					MOD OSHA 32	Phenol	2 mL 15/85 CS2 / Methanol	Phenol can be collected using the 3501+ (preferred) or 3500+, but not with other organic vapors.
101-84-8	PHENYL ETHER	3500+	6.71	13000	100.00%	0.28	0.040	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
101-84-8	PHENYL ETHER	3501+/3511+	43.7	39000	95.00%	0.043	0.0062	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
110-89-4	PIPERIDINE	3501+	66.8					MOD OSHA 60			
123-38-6	PROPIONALDEHYDE	3720+/3721+	9.58		100.00%	0.022	0.0092	MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
109-60-4	PROPYL ACETATE	3500+/3510+	9.08	15000	98.70%	0.23	0.055	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-60-4	PROPYL ACETATE	3501+/3511+	63.8	45000	89.60%	0.033	0.0078	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
107-98-2	PROPYLENE GLYCOL METHYL ETHER	3500+/3510+	9.66	15000	65.80%	0.43	0.12	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
107-98-2	PROPYLENE GLYCOL METHYL ETHER	3501+/3511+	63.0	45000	65.80%	0.066	0.018	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
1569-01-3	PROPYLENE GLYCOL N-PROPYL ETHER	3501+	67.4								
75-56-9	PROPYLENE OXIDE	3500+/3510+	12.1		94.60%	0.17	0.073	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-56-9	PROPYLENE OXIDE	3501+/3511+	76.5		95.00%	0.027	0.011	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-56-9	PROPYLENE OXIDE	3551+	12.1					MOD ASTM D5578	Ethylene Oxide	2 mL of 90/10 Toluene/Acetonitrile	
110-86-1	PYRIDINE	3500+/3510+	10.3	15000	88.20%	0.18	0.056	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-86-1	PYRIDINE	3501+/3511+	71.4	45000	88.00%	0.026	0.0081	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
28523-86-6	SEVOFLURANE	3500+	7.89	185	97.50%	0.79	0.097	MOD OSHA 103	Anesthetic Gas	2 mL of Toluene	
28523-86-6	SEVOFLURANE	3501+	50.8					MOD OSHA 103			
8052-41-3	STODDARD SOLVENT	3500+/3510+	7.03	13000	102.38%	12	2.3	MOD NIOSH 1550	OV List C	2 mL of Carbon Disulfide	
8052-41-3	STODDARD SOLVENT	3501+/3511+	53.3	39000	102.00%	1.6	0.30	MOD NIOSH 1550	OV List C	2 mL of Carbon Disulfide	
100-42-5	STYRENE	3500+/3510+	9.21	15000	90.70%	0.11	0.027	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
100-42-5	STYRENE	3501+/3511+	58.4	45000	89.85%	0.018	0.0042	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-65-0	T-BUTYL ALCOHOL	3500+/3510+	10.7	12000	91.60%	0.20	0.064	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-65-0	T-BUTYL ALCOHOL	3501+	83.4					AT L-OV (GC/FID)			
1634-04-4	T-BUTYL METHYL ETHER	3500+/3510+	9.77		98.20%	0.19	0.053	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
1634-04-4	T-BUTYL METHYL ETHER	3501+	66.0		98.00%	0.028	0.0079	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
110-05-4	T-BUTYLPEROXIDE	3501+	56.0								
994-05-8	TERT-AMYL METHYL ETHER	3501+	62.8					AT L-OV (GC/FID)			

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
540-88-5	TERT-BUTYL ACETATE	3500+/3510+	8.50	14000	98.60%	0.49	0.10	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
540-88-5	TERT-BUTYL ACETATE	3501+/3511+	55.7	42000	99.00%	0.075	0.016	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-99-9	TETRAHYDROFURAN	3500+/3510+	10.8	11300	96.30%	0.15	0.052	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
109-99-9	TETRAHYDROFURAN	3501+/3511+	77.7	34000	101.50%	0.021	0.0073	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-88-3	TOLUENE	3500+/3510+	9.48	15000	96.70%	0.44	0.12	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-88-3	TOLUENE	3501+/3511+	69.5	45000	97.00%	0.060	0.016	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
8002-05-9	TOTAL HYDROCARBONS as n-Hexane	3500+	9.88		96.70%	8.4	2.4	MOD NIOSH 1500	OV List C	2 mL of Carbon Disulfide	All results reported in mg/m <sup>3</sup> . Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot (E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
8002-05-9	TOTAL HYDROCARBONS as n-Hexane	3501+/3511+	60.9		97.00%	1.4	0.39	MOD NIOSH 1500	OV List C	2 mL of Carbon Disulfide	
79-01-6	TRICHLOROETHYLENE	3500+/3510+	8.60	15000	98.20%	0.48	0.090	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
79-01-6	TRICHLOROETHYLENE	3501+/3511+	72.9	45000	102.40%	0.057	0.011	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
8006-64-2	TURPENTINE	3501+	57.2								
110-62-3	VALERALDEHYDE	3720+/3721+	7.21		100.00%	0.29	0.082	MOD EPA TO-11	Aldehyde	1 mL Acetonitrile	
108-05-4	VINYL ACETATE	3500+/3510+	9.89	13000	97.60%	0.21	0.060	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
108-05-4	VINYL ACETATE	3501+/3511+	70.8	1800	98.00%	0.029	0.0084	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
593-60-2	VINYL BROMIDE	3501+	61.8					AT L-OV (GC/FID)			

CAS #	Chemical	Badge	Sampling Rate, mL/min	Capacity, ug	DE	8 Hour Reporting Limit, mg/m <sup>3</sup>	8 Hour Reporting Limit, ppm	Method	Analysis Group	Suggested Solvent	Comments
75-01-4	VINYL CHLORIDE	3500+/3510+	11.6	50	96.30%	0.090	0.035	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-01-4	VINYL CHLORIDE	3501+/3511+	74.4	150				AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	<b>3501+ not recommended for Vinyl Chloride. Use a 3500+ instead.</b>
107-25-5	VINYL METHYL ETHER	3501+	87.2					AT L-OV (GC/FID)			
25013-15-4	VINYL TOLUENE	3500+/3510+	8.43	13000	90.40%	0.12	0.026	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
25013-15-4	VINYL TOLUENE	3501+/3511+	59.9	39000	90.00%	0.017	0.0036	AT L-OV (GC/FID)	OV List B	2 mL of 97% Carbon Disulfide / 3% Butanol	
75-35-4	VINYLDENE CHLORIDE	3500+/3510+	9.32	2500	97.60%	0.27	0.068	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
75-35-4	VINYLDENE CHLORIDE	3501+/3511+	63.9	7500	98.00%	0.039	0.0099	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
8032-32-4	VMP NAPHTHA	3500+/3510+	8.92	13000	99.56%	9.3	2.1	MOD NIOSH 1550	OV List C	2 mL of Carbon Disulfide	
8032-32-4	VMP NAPHTHA	3501+/3511+	56.1		100.00%	1.5	0.33	MOD NIOSH 1550	OV List C	2 mL of Carbon Disulfide	
1330-20-7	XYLENES	3500+/3510+	7.54	15000	100.50%	0.28	0.064	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	
1330-20-7	XYLENES	3501+/3511+	60.5	45000	94.00%	0.034	0.0079	AT L-OV (GC/FID)	OV List A	2 mL of 97% Carbon Disulfide / 3% Benzyl Alcohol	

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