

VOLATILE ORGANICS
STANDARD REPORTING LIMITS

Volatile Organics in Air
TO-15

CAS #	Compound	RL ppv	RL ug/m ³
71-55-6	1,1,1-Trichloroethane	0.5	2.7
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.4
79-00-5	1,1,2-Trichloroethane	0.5	2.7
75-34-3	1,1-Dichloroethane	0.5	2
75-35-4	1,1-Dichloroethene	0.5	2
120-82-1	1,2,4-Trichlorobenzene	0.5	3.4
95-63-6	1,2,4-Trimethylbenzene	0.5	2.5
106-93-4	1,2-Dibromoethane	0.5	3.8
95-50-1	1,2-Dichlorobenzene	0.5	3
107-06-2	1,2-Dichloroethane	0.5	2
78-87-5	1,2-Dichloropropane	0.5	2.3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.5
106-99-0	1,3-Butadiene	0.5	1.1
541-73-1	1,3-Dichlorobenzene	0.5	3
106-46-7	1,4-Dichlorobenzene	0.5	3
78-93-3	2-Butanone	0.5	1.5
591-78-6	2-Hexanone	0.5	2
622-96-8	4-Ethyltoluene	0.5	2.5
108-10-1	4-Methyl-2-Pentanone	0.5	2
67-64-1	Acetone	2	4
107-02-8	Acrolein	0.5	1.1
71-43-2	Benzene	0.5	1.6
100-44-7	Benzyl chloride	0.5	2.6
75-27-4	Bromodichloromethane	0.5	3.4
75-25-2	Bromoform	0.5	5.2
74-83-9	Bromomethane	0.5	1.9
75-15-0	Carbon Disulfide	0.5	1.6
56-23-5	Carbon Tetrachloride	0.5	3.1
108-90-7	Chlorobenzene	0.5	2.3
75-00-3	Chloroethane	0.5	1.3
67-66-3	Chloroform	0.5	2.4
74-87-3	Chloromethane	0.5	1
110-82-7	Cyclohexane	0.5	1.7
124-48-1	Dibromochloromethane	0.5	4.3
141-78-6	Ethyl Acetate	0.5	1.8
100-41-4	Ethylbenzene	0.5	2.2
76-13-1	Freon 113	0.5	3.8
76-14-2	Freon 114	0.5	3.5
75-71-8	Freon 12	0.5	2.5
87-68-3	Hexachlorobutadiene	0.5	5.3
1634-04-4	MTBE	0.5	1.8
75-09-2	Methylene Chloride	0.5	1.7
115-07-1	Propylene	0.5	0.86
100-42-5	Styrene	0.5	2.1
127-18-4	Tetrachloroethene	0.5	3.4
109-99-9	Tetrahydrofuran	0.5	1.5
108-88-3	Toluene	0.5	1.9
79-01-6	Trichloroethene	0.5	2.7
75-69-4	Trichlorofluoromethane	0.5	2.8
108-05-4	Vinyl Acetate	0.5	1.8
75-01-4	Vinyl Chloride	0.5	1.3
156-59-2	cis-1,2-Dichloroethene	0.5	2

VOLATILE ORGANICS
STANDARD REPORTING LIMITS



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10061-01-5	cis-1,3-Dichloropropene	0.5	2.3
1330-20-7	m,p-Xylenes	0.5	2.2
142-82-5	n-Heptane	0.5	2
110-54-3	n-Hexane	0.5	1.8
95-47-6	o-Xylene	0.5	2.2
156-60-5	trans-1,2-Dichloroethene	0.5	2
10061-02-6	trans-1,3-Dichloropropene	0.5	2.3

**VOLATILE ORGANICS
STANDARD REPORTING LIMITS**

**Volatile Organics in Waste Water
EPA 624**

CAS #	Compound	Water RL µg/L
71-43-2	Benzene	0.5
75-27-4	Bromodichloromethane	0.5
75-25-2	Bromoform	1
74-83-9	Bromomethane	1
56-23-5	Carbon tetrachloride	0.5
108-90-7	Chlorobenzene	0.5
75-00-3	Chloroethane	1
67-66-3	Chloroform	1
74-87-3	Chloromethane	1
124-48-1	Dibromochloromethane	0.5
95-50-1	1,2-Dichlorobenzene	0.5
541-73-1	1,3-Dichlorobenzene	0.5
106-46-7	1,4-Dichlorobenzene	0.5
75-34-3	1,1-Dichloroethane	0.5
107-06-2	1,2-Dichloroethane	0.5
75-35-4	1,1-Dichloroethene	0.5
156-60-5	trans-1,2-Dichloroethene	0.5
78-87-5	1,2-Dichloropropane	0.5
10061-01-5	cis-1,3-Dichloropropene	0.5
10061-02-6	trans-1,3-Dichloropropene	0.5
100-41-4	Ethylbenzene	0.5
75-09-2	Methylene chloride	20
79-34-5	1,1,2,2-Tetrachloroethane	0.5
127-18-4	Tetrachloroethene	0.5
71-55-6	1,1,1-Trichloroethane	0.5
79-00-5	1,1,2-Trichloroethane	0.5
79-01-6	Trichloroethene	0.5
75-69-4	Trichlorofluoromethane	1
75-01-4	Vinyl chloride	0.5

Additional VOC compounds from the 8260 list may be added upon request.

Surrogates:

460-00-4	Bromofluorobenzene
17060-07-0	1,2-Dichloroethane-d4
2037-26-5	Toluene-d8

**VOLATILE ORGANICS
STANDARD REPORTING LIMITS**

**Purgeable Hydrocarbons (TPH-G)
EPA 8015B**

CAS #	Compound	Reporting Limit	
		µg/L	mg/Kg
8006-61-9	Gasoline	50	1
Additional Compounds (may be added to target list):			
	JP-4 Jet Fuel	50	1
	Mineral Spirits	50	1
	Stoddard Solvent	50	1
Surrogates:			
98-08-8	Trifluorotoluene		
460-00-4	Bromofluorobenzene		

**BTXE
EPA 8021B**

CAS #	Compound	Reporting Limit	
		µg/L	µg/Kg
71-43-2	Benzene	0.5	5
100-41-4	Ethylbenzene	0.5	5
108-88-3	Toluene	0.5	5
1330-20-7	m,p-Xylenes	0.5	5
95-47-6	o-Xylene	0.5	5
Additional Compounds (may be added to target list):			
1634-04-4	MTBE	2	20
Surrogates:			
98-08-8	Trifluorotoluene		
460-00-4	Bromofluorobenzene		

VOLATILE ORGANICS
STANDARD REPORTING LIMITS

Total Volatile Hydrocarbons by GC/MS (MSTVH list)
EPA 8260B-Mod

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
8006-61-9	Gasoline	50	1,000
71-43-2	Benzene	0.5	5
75-65-0	tert-Butyl Alcohol (TBA)	10	100
106-93-4	1,2-Dibromoethane (EDB)	0.5	5
107-06-2	1,2-Dichloroethane (DCA or EDC)	0.5	5
100-41-4	Ethylbenzene	0.5	5
637-92-3	Ethyl tert-Butyl Ether (ETBE)	0.5	5
108-20-3	Isopropyl Ether (DIPE)	0.5	5
994-05-8	Methyl tert-Amyl Ether (TAME)	0.5	5
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.5	5
108-88-3	Toluene	0.5	5
1330-20-7	m,p-Xylenes	0.5	5
95-47-6	o-Xylene	0.5	5
Additional Compounds (may be added to the compound list):			
64-17-5	Ethanol	2,000	2,000
Surrogates:			
460-00-4	Bromofluorobenzene		
1868-53-7	Dibromofluoromethane		
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		

**VOLATILE ORGANICS
STANDARD REPORTING LIMITS**

**Gasoline Oxygenates
EPA 8260B**

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
75-65-0	tert-Butyl Alcohol (TBA)	10	100
106-93-4	1,2-Dibromoethane (EDB)	0.5	5
107-06-2	1,2-Dichloroethane (DCA or EDC)	0.5	5
637-92-3	Ethyl tert-Butyl Ether (ETBE)	0.5	5
108-20-3	Isopropyl Ether (DIPE)	0.5	5
994-05-8	Methyl tert-Amyl Ether (TAME)	0.5	5
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.5	5
Additional Compounds (may be added to the compound list):			
64-17-5	Ethanol	2,000	2,000
Surrogates:			
460-00-4	Bromofluorobenzene		
1868-53-7	Dibromofluoromethane		
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		

**BTOX (BTXE plus Oxygenates)
EPA 8260B**

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
71-43-2	Benzene	0.5	5
75-65-0	tert-Butyl Alcohol (TBA)	10	100
106-93-4	1,2-Dibromoethane (EDB)	0.5	5
107-06-2	1,2-Dichloroethane (DCA or EDC)	0.5	5
100-41-4	Ethylbenzene	0.5	5
637-92-3	Ethyl tert-Butyl Ether (ETBE)	0.5	5
108-20-3	Isopropyl Ether (DIPE)	0.5	5
994-05-8	Methyl tert-Amyl Ether (TAME)	0.5	5
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.5	5
108-88-3	Toluene	0.5	5
1330-20-7	m,p-Xylenes	0.5	5
95-47-6	o-Xylene	0.5	5
Additional Compounds (may be added to the compound list):			
64-17-5	Ethanol	2,000	2,000
Surrogates:			
460-00-4	Bromofluorobenzene		
1868-53-7	Dibromofluoromethane		
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		

VOLATILE ORGANICS
STANDARD REPORTING LIMITS

Halogenated Volatile Organics (former EPA 8010 compound list)
EPA 8260B

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
75-27-4	Bromodichloromethane	0.5	5
75-25-2	Bromoform	1	10
74-83-9	Bromomethane	1	10
56-23-5	Carbon tetrachloride	0.5	5
108-90-7	Chlorobenzene	0.5	5
75-00-3	Chloroethane	1	10
67-66-3	Chloroform	1	5
74-87-3	Chloromethane	1	10
124-48-1	Dibromochloromethane	0.5	5
95-50-1	1,2-Dichlorobenzene	0.5	5
541-73-1	1,3-Dichlorobenzene	0.5	5
106-46-7	1,4-Dichlorobenzene	0.5	5
75-34-3	1,1-Dichloroethane	0.5	5
107-06-2	1,2-Dichloroethane	0.5	5
75-35-4	1,1-Dichloroethene	0.5	5
156-59-2	cis-1,2-Dichloroethene	0.5	5
156-60-5	trans-1,2-Dichloroethene	0.5	5
78-87-5	1,2-Dichloropropane	0.5	5
10061-01-5	cis-1,3-Dichloropropene	0.5	5
10061-02-6	trans-1,3-Dichloropropene	0.5	5
76-13-1	Freon 113	2	5
75-09-2	Methylene chloride	20	20
79-34-5	1,1,2,2-Tetrachloroethane	0.5	5
127-18-4	Tetrachloroethene	0.5	5
71-55-6	1,1,1-Trichloroethane	0.5	5
79-00-5	1,1,2-Trichloroethane	0.5	5
79-01-6	Trichloroethene	0.5	5
75-69-4	Trichlorofluoromethane	1	5
75-01-4	Vinyl chloride	0.5	10
Additional Compounds (may be added to the compound list):			
110-75-8	2-Chloroethyl vinyl ether	10	
75-71-8	Freon 12	1	10
Surrogates:			
460-00-4	Bromofluorobenzene		
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		

VOLATILE ORGANICS
STANDARD REPORTING LIMITS

Volatile Organic Compounds
EPA 8260B

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
67-64-1	Acetone	10	20
71-43-2	Benzene	0.5	5
108-86-1	Bromobenzene	0.5	5
74-97-5	Bromochloromethane	0.5	10
75-27-4	Bromodichloromethane	0.5	5
75-25-2	Bromoform	1	5
74-83-9	Bromomethane	1	10
78-93-3	2-Butanone	10	10
104-51-8	n-Butylbenzene	0.5	5
135-98-8	sec-Butylbenzene	0.5	5
98-06-6	tert-Butylbenzene	0.5	5
75-15-0	Carbon disulfide	0.5	5
56-23-5	Carbon tetrachloride	0.5	5
108-90-7	Chlorobenzene	0.5	5
75-00-3	Chloroethane	1	10
67-66-3	Chloroform	0.5	5
74-87-3	Chloromethane	1	10
95-49-8	2-Chlorotoluene	0.5	5
106-43-4	4-Chlorotoluene	0.5	5
124-48-1	Dibromochloromethane	0.5	5
96-12-8	1,2-Dibromo-3-chloropropane	2	5
106-93-4	1,2-Dibromoethane (EDB)	0.5	5
74-95-3	Dibromomethane	0.5	5
95-50-1	1,2-Dichlorobenzene	0.5	5
541-73-1	1,3-Dichlorobenzene	0.5	5
106-46-7	1,4-Dichlorobenzene	0.5	5
75-34-3	1,1-Dichloroethane	0.5	5
107-06-2	1,2-Dichloroethane	0.5	5
75-35-4	1,1-Dichloroethene	0.5	5
156-59-2	cis-1,2-Dichloroethene	0.5	5
156-60-5	trans-1,2-Dichloroethene	0.5	5
78-87-5	1,2-Dichloropropane	0.5	5
142-28-9	1,3-Dichloropropane	0.5	5
594-20-7	2,2-Dichloropropane	0.5	5
563-58-6	1,1-Dichloropropene	0.5	5
10061-01-5	cis-1,3-Dichloropropene	0.5	5
10061-02-6	trans-1,3-Dichloropropene	0.5	5
100-41-4	Ethylbenzene	0.5	5
75-71-8	Freon 12	1	10
76-13-1	Freon 113	2	5
87-68-3	Hexachlorobutadiene	2	5
591-78-6	2-Hexanone	10	10
98-82-8	Isopropylbenzene	0.5	5
99-87-6	para-Isopropyl toluene	0.5	5
75-09-2	Methylene chloride	10	20
108-10-1	4-Methyl-2-pentanone	10	10
1634-04-4	Methyl t-butyl ether (MTBE)	0.5	5
91-20-3	Naphthalene	2	5
103-65-1	Propylbenzene	0.5	5
100-42-5	Styrene	0.5	5
630-20-6	1,1,1,2-Tetrachloroethane	0.5	5
79-34-5	1,1,2,2-Tetrachloroethane	0.5	5
127-18-4	Tetrachloroethene	0.5	5
108-88-3	Toluene	0.5	5
87-61-6	1,2,3-Trichlorobenzene	0.5	5
120-82-1	1,2,4-Trichlorobenzene	0.5	5
71-55-6	1,1,1-Trichloroethane	0.5	5

**VOLATILE ORGANICS
STANDARD REPORTING LIMITS**

**Volatile Organic Compounds
EPA 8260B**

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
79-00-5	1,1,2-Trichloroethane	0.5	5
79-01-6	Trichloroethene	0.5	5
75-69-4	Trichlorofluoromethane	1	5
96-18-4	1,2,3-Trichloropropane	0.5	5
95-63-6	1,2,4-Trimethylbenzene	0.5	5
108-67-8	1,3,5-Trimethylbenzene	0.5	5
108-05-4	Vinyl acetate	10	50
75-01-4	Vinyl chloride	0.5	10
1330-20-7	m,p-Xylenes	0.5	5
95-47-6	o-Xylene	0.5	5
Additional Compounds (may be added to the compound list):			
110-75-8	2-Chloroethyl vinyl ether	10	
544-10-5	1-Chlorohexane	5	5
64-17-5	Ethanol	2,000	2,000
110-54-3	Hexane	5	5
67-63-0	2-Propanol (IPA)	100	100
109-99-9	Tetrahydrofuran (THF)	100	100
15045-43-9	Tetra-methyl THF	5	5
Surrogates:			
460-00-4	Bromofluorobenzene		
1868-53-7	Dibromofluoromethane		
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		

VOLATILE ORGANICS
STANDARD REPORTING LIMITS

Volatile Organic Compounds w/ GasOx (8260X list)
EPA 8260B

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
67-64-1	Acetone	10	20
71-43-2	Benzene	0.5	5
108-86-1	Bromobenzene	0.5	5
74-97-5	Bromochloromethane	0.5	10
75-27-4	Bromodichloromethane	0.5	5
75-25-2	Bromoform	1	5
74-83-9	Bromomethane	1	10
78-93-3	2-Butanone	10	10
75-65-0	tert-Butyl Alcohol (TBA)	10	100
104-51-8	n-Butylbenzene	0.5	5
135-98-8	sec-Butylbenzene	0.5	5
98-06-6	tert-Butylbenzene	0.5	5
75-15-0	Carbon disulfide	0.5	5
56-23-5	Carbon tetrachloride	0.5	5
108-90-7	Chlorobenzene	0.5	5
75-00-3	Chloroethane	1	10
67-66-3	Chloroform	0.5	5
74-87-3	Chloromethane	1	10
95-49-8	2-Chlorotoluene	0.5	5
106-43-4	4-Chlorotoluene	0.5	5
124-48-1	Dibromochloromethane	0.5	5
96-12-8	1,2-Dibromo-3-chloropropane	2	5
106-93-4	1,2-Dibromoethane (EDB)	0.5	5
74-95-3	Dibromomethane	0.5	5
95-50-1	1,2-Dichlorobenzene	0.5	5
541-73-1	1,3-Dichlorobenzene	0.5	5
106-46-7	1,4-Dichlorobenzene	0.5	5
75-34-3	1,1-Dichloroethane	0.5	5
107-06-2	1,2-Dichloroethane	0.5	5
75-35-4	1,1-Dichloroethene	0.5	5
156-59-2	cis-1,2-Dichloroethene	0.5	5
156-60-5	trans-1,2-Dichloroethene	0.5	5
78-87-5	1,2-Dichloropropane	0.5	5
142-28-9	1,3-Dichloropropane	0.5	5
594-20-7	2,2-Dichloropropane	0.5	5
563-58-6	1,1-Dichloropropene	0.5	5
10061-01-5	cis-1,3-Dichloropropene	0.5	5
10061-02-6	trans-1,3-Dichloropropene	0.5	5
100-41-4	Ethylbenzene	0.5	5
637-92-3	Ethyl tert-Butyl Ether (ETBE)	0.5	5
75-71-8	Freon 12	1	10
76-13-1	Freon 113	2	5
87-68-3	Hexachlorobutadiene	2	5
591-78-6	2-Hexanone	10	10
98-82-8	Isopropylbenzene	0.5	5
108-20-3	Isopropyl Ether (DIPE)	0.5	5
99-87-6	para-Isopropyl toluene	0.5	5
75-09-2	Methylene chloride	10	20
108-10-1	4-Methyl-2-pentanone	10	10
994-05-8	Methyl tert-Amyl Ether (TAME)	0.5	5
1634-04-4	Methyl tert-butyl ether (MTBE)	0.5	5
91-20-3	Naphthalene	2	5
103-65-1	Propylbenzene	0.5	5
100-42-5	Styrene	0.5	5
630-20-6	1,1,1,2-Tetrachloroethane	0.5	5
79-34-5	1,1,2,2-Tetrachloroethane	0.5	5
127-18-4	Tetrachloroethene	0.5	5

**VOLATILE ORGANICS
STANDARD REPORTING LIMITS**

**Volatile Organic Compounds w/ GasOx (8260X list)
EPA 8260B**

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
108-88-3	Toluene	0.5	5
87-61-6	1,2,3-Trichlorobenzene	0.5	5
120-82-1	1,2,4-Trichlorobenzene	0.5	5
71-55-6	1,1,1-Trichloroethane	0.5	5
79-00-5	1,1,2-Trichloroethane	0.5	5
79-01-6	Trichloroethene	0.5	5
75-69-4	Trichlorofluoromethane	1	5
96-18-4	1,2,3-Trichloropropane	0.5	5
95-63-6	1,2,4-Trimethylbenzene	0.5	5
108-67-8	1,3,5-Trimethylbenzene	0.5	5
108-05-4	Vinyl acetate	10	50
75-01-4	Vinyl chloride	0.5	10
1330-20-7	m,p-Xylenes	0.5	5
95-47-6	o-Xylene	0.5	5
Additional Compounds (may be added to the compound list):			
110-75-8	2-Chloroethyl vinyl ether	10	
544-10-5	1-Chlorohexane	5	5
64-17-5	Ethanol	2,000	2,000
110-54-3	Hexane	5	5
67-63-0	2-Propanol (IPA)	100	100
109-99-9	Tetrahydrofuran (THF)	100	100
15045-43-9	Tetra-methyl THF	5	5
Surrogates:			
460-00-4	Bromofluorobenzene		
1868-53-7	Dibromofluoromethane		
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		

VOLATILE ORGANICS
STANDARD REPORTING LIMITS

Alcohols
EPA 8015B

CAS #	Compound	Water RL mg/L
64-17-5	Ethanol	1
87-56-1	Methanol	1
Surrogate:		
74-41-0	1-Pentanol	

Dissoved Gasses
RSK-175

CAS #	Compound	Water RL mg/L
74-82-8	Methane	0.005
72-84-0	Ethane	0.005
74-85-1	Ethene	0.005
Additional Compounds (may be added to the compound list):		
74-86-2	Acetylene	0.005
124-38-9	Carbon Dioxide	1