Alpha Analytical Laboratories, Inc.

4/23/2013

Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
524.2 Volatiles in Water (EPA 524.2)								
Preservation: Dechlorinate; HCl to pH<2; <6°C								
Container: VOA Vial - HCl		**Amount Required:** 4 VOA vials			**Hold Time:** 14 days			
Acetone	0.80	5.0 ug/l			70 - 130	30	70 - 130	30
Acrylonitrile	0.20	5.0 ug/l			70 - 130	30	70 - 130	30
Benzene	0.20	0.30 ug/l			70 - 130	30	70 - 130	30
Bromobenzene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
Bromochloromethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Bromodichloromethane	0.50	0.50 ug/l			70 - 130	30	70 - 130	30
Bromoform	0.50	0.50 ug/l			70 - 130	30	70 - 130	30
Bromomethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
n-Butylbenzene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
sec-Butylbenzene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
tert-Butylbenzene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
Carbon disulfide	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Carbon tetrachloride	0.30	0.50 ug/l			70 - 130	30	70 - 130	30
Chlorobenzene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Chloroethane	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
Chloroform	0.50	0.50 ug/l			70 - 130	30	70 - 130	30
Chloromethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
2-Chlorotoluene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
4-Chlorotoluene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
Dibromochloromethane	0.50	0.50 ug/l			70 - 130	30	70 - 130	30
Dibromomethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,2-Dichlorobenzene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,3-Dichlorobenzene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,4-Dichlorobenzene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
Dichlorodifluoromethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,1-Dichloroethane	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
1,2-Dichloroethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,1-Dichloroethene	0.10	0.30 ug/l			70 - 130	30	70 - 130	30
trans-1,2-Dichloroethene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
cis-1,2-Dichloroethene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,3-Dichloropropene (total)	0.20	0.50 ug/l						
1,2-Dichloropropane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,3-Dichloropropane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
2,2-Dichloropropane	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
1,1-Dichloropropene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
cis-1,3-Dichloropropene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
trans-1,3-Dichloropropene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Ethylbenzene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
Hexachlorobutadiene	0.30	0.50 ug/l			70 - 130	30	70 - 130	30
Isopropylbenzene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
p-Isopropyltoluene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
Methyl ethyl ketone	0.40	1.0 ug/l			70 - 130	30	70 - 130	30
Methyl isobutyl ketone	0.30	1.0 ug/l			70 - 130	30	70 - 130	30
Methyl tert-butyl ether	0.50	0.50 ug/l			70 - 130	30	70 - 130	30
Methylene chloride	0.40	0.50 ug/l			70 - 130	30	70 - 130	30
Naphthalene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30

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n-Propylbenzene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Styrene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
1,1,1,2-Tetrachloroethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,1,2,2-Tetrachloroethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Tetrachloroethene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Toluene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
1,2,3-Trichlorobenzene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
1,2,4-Trichlorobenzene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,1,1-Trichloroethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,1,2-Trichloroethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Trichloroethene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Trichlorofluoromethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Trichlorotrifluoroethane	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
1,2,4-Trimethylbenzene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
1,3,5-Trimethylbenzene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
Vinyl chloride	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
m,p-Xylene	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
o-Xylene	0.10	0.50 ug/l			70 - 130	30	70 - 130	30
Xylenes (total)	0.20	0.50 ug/l			70 - 130	30	70 - 130	30
Trihalomethanes (total)	0.50	0.50 ug/l						
surr: Bromofluorobenzene			70 - 130					
surr: Dibromofluoromethane			70 - 130					
surr: Toluene-d8			70 - 130					