

CERTIFIED CLEANED CONTAINERS

PC Class — Certificate of Compliance

The enclosed containers have been processed to meet USEPA directives for low level chemical analysis. Representative containers have been tested by independent certified laboratories for their appropriate use. ESS containers meet and exceed the required detection limits established by the USEPA IN SPECIFICATIONS AND GUIDANCE FOR CONTAMINANT-FREE SAMPLE CONTAINERS (OSWER Directive #9240.0-05A).

EXTRACTABLE ORGANIC COMPOUNDS (PROCEDURE 1)

Analyte	Quantitation Limit (ug/L)	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration		
PESTICIDES/PCB'S		Aroclor-1016	<0.2	bis-(2-Chloroethoxy) methane	<1	Diethylphthalate	<1	Benzo[b]fluoranthene	<0.2
Alpha-BHC	<0.005	Aroclor-1221	<0.2	2,4-Dichlorophenol	<1	4-Chlorophenyl-Phenylether	<1	Benzo[k]fluoranthene	<0.15
Beta-BHC	<0.005	Aroclor-1232	<0.2	1,2,4-Trichlorobenzene	<1	Flourene	<0.15	Benzo[a]pyrene	<0.15
Delta-BHC	<0.005	Aroclor-1242	<0.2	Naphthalene	<0.2	4-Nitroaniline	<1.5	Indeno[1,2,3-cd]pyrene	<0.2
Gamma-BHC (Lindane)	<0.005	Aroclor-1248	<0.2	4-Chloroaniline	<1	4,6-Dinitro-2-Methylphenol	<1	Dibenzo[a,h]anthracene	<0.15
Heptachlor	<0.005	Aroclor-1254	<0.2	Hexachlorobutadiene	<1	N-Nitrosodiphenylamine	<1	Benzo[g,h,i]perylene	<0.15
Aldrin	<0.005	Aroclor-1260	<0.2	4-Chloro-3-Methylphenol	<1	N-Nitrosodimethylamine	<1	Benzoic Acid	<5
Heptachlor Epoxide	<0.005	Aroclor-1262	<0.2	2-Methylnaphthalene	<0.2	4-Bromophenyl-Phenylether	<1	Benzyl Alcohol	<1
Endosulfan I	<0.005	Aroclor-1268	<0.2	Hexachlorocyclopentadiene	<1	Hexachlorobenzene	<1	1,1'-Biphenyl	<1
Dieldrin	<0.005	SEMIVOLATILES		2,4,6-Trichlorophenol	<1	Pentachlorophenol	<1	1,2,4,5-Tetrachlorobenzene	<1
4,4'-DDE	<0.005	Phenol	<1	2,4,5-Trichlorophenol	<1	Phenanthrene	<0.2	1,4-Dinitrobenzene	<1
Endrin	<0.005	bis-(2-Chloroethyl) ether	<1	1,2-Diphenylhydrazene	<1	Anthracene	<0.1	1-Methylnaphthalene	<1
Endosulfan II	<0.005	bis-(2-Chloroisopropyl) ether	<1	Carbazole	<1	Di-n-Butylphthalate	<0.2	2,3,4,6-Tetrachlorophenol	<1
4,4'-DDD	<0.005	2-Chlorophenol	<1	2-Chloronaphthalene	<0.15	Fluoroanthene	<0.1	2,6-Dichlorophenol	<1
Endosulfan Sulfate	<0.005	2-Methylphenol	<1	2-Nitroaniline	<1	Pyrene	<0.15	3-Methylphenol	<1
4,4'-DDT	<0.005	2-Methylphenol	<1	Dimethylphthalate	<1	Butylbenzylphthalate	<1	Aniline	<1
Methoxychlor	<0.005	2,2'-Oxybis-(1-Chloropropane)	<1	Acenaphthylene	<0.2	1,2'-Dichlorobenzene	<1	Azobenzene	<1
Endrin Ketone	<0.005	4-Methylphenol	<1	2,6-Dinitrotoluene	<1	1,3'-Dichlorobenzene	<1	Benzaldehyde	<1
Endrin Aldehyde	<0.005	N-Nitroso-di-n-propylamine	<1	3-Nitroaniline	<1	1,4'-Dichlorobenzene	<1	Benzenidine	<1
Alpha-Chlordane	<0.005	Hexachloroethane	<1	Acenaphthene	<0.2	3,3'-Dichlorobenzidine	<0.15	Benzaldehyde	<1
Gamma-Chlordane	<0.005	Nitrobenzene	<1	2,4-Dinitrophenol	<5	Benzo[a]anthracene	<0.1	Caprolactam	<1
Toxaphene	<0.005	Isophorone	<1	4-Nitrophenol	<5	Chrysene	<0.1	Diphenylamine	<1
		2-Nitrophenol	<1	Dibenzofuran	<1	bis-(2-Ethylhexyl) Phthalate	<1	Pyridine	<1
		2,4-Dimethylphenol	<1	2,4-Dinitrotoluene	<1	Di-n-Octylphthalate	<1	TPH Diesel	<50.00

PURGEABLE VOLATILE ORGANIC COMPOUNDS (PROCEDURE 2)

Analyte	Quantitation Limit (ug/L)	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration		
Acetone	<2.0	Chloromethane	<0.1	trans-1,2-Dichloroethene	<0.1	1,1,2,2-Tetrachloroethane	<0.1	4-Methyl-2-pentanone	<0.5
Benzene	<0.1	2-Chlorotoluene	<0.1	1,2-Dichloropropane	<0.1	Tetrachloroethene	<0.1	ethyl-tert-butylether	<0.1
Bromoform	<0.1	4-Chlorotoluene	<0.1	1,3-Dichloropropane	<0.1	Toluene	<0.1	tert-amylmethylether	<0.1
Bromobenzene	<0.1	2,4-Chlorotoluene	<0.2	2,2-Dichloropropane	<0.1	1,2,3-Trichlorobenzene	<0.1	diisopropylether	<0.1
Bromochloromethane	<0.1	Chloroform	<0.1	1,1-Dichloropropane	<0.1	1,2,4-Trichlorobenzene	<0.1	tert-butanol	<0.1
Bromodichloromethane	<0.1	Dibromomethane	<0.1	cis-1,3-Dichloropropane	<0.1	1,1,1-Trichloroethane	<0.1	o-xylene	<0.1
Bromomethane	<0.1	1,2-Dibro-3-Chloropropane	<0.1	trans-1,3-Dichloropropane	<0.1	1,1,2-Trichloroethane	<0.1	m-xylene(1)	<0.2
z-Butylbenzene	<0.1	Dibromochloromethane	<0.1	Ethylbenzene	<0.1	Trichloroethene	<0.1	p-xylene(1)	<0.2
n-Butylbenzene	<0.1	1,2-Dibromoethane (EDB)	<0.1	2-Hexanone	<0.5	Trichlorofluoromethane	<0.1	p-xylene(1)	<0.2
sec-Butylbenzene	<0.1	1,2-Dichlorobenzene	<0.1	Hexachlorobutadiene	<0.1	Trichlorotrifluoroethane	<0.1	1,1-Dichloroethane	<1
tert-Butylbenzene	<0.1	1,3-Dichlorobenzene	<0.1	Isopropylbenzene	<0.1	1,2,3-Trichloropropane	<0.005	1,3-Dichloropropane, Total	<1
Carbon Tetrachloride	<0.1	1,4-Dichlorobenzene	<0.1	Methylene Chloride	<0.5	1,2,3-Trimethylbenzene	<0.1	2-Butanone (MEK)	<1
Carbon Disulfide	<0.1	Dichlorodifluoromethane	<0.1	Naphthalene	<0.5	1,2,4-Trimethylbenzene	<0.1	Acrylonitrile	<1
Chlorobenzene	<0.1	1,1-Dichloroethane	<0.1	Propylbenzene	<0.1	1,3,5-Trimethylbenzene	<0.1	Dichlorofluoromethane	<1
Chloroethane	<0.1	1,1-Dichloroethene	<0.1	Styrene	<0.1	Vinyl Chloride	<0.1	Ethanol	<1
		cis-1,2-Dichloroethene	<0.1	1,1,1,2-Tetrachloroethane	<0.1	Methyl-Tert-Butyl-Ether	<0.1	Tetrahydrofuran	<1
								TPH as Gasoline	<50.00

METALS, FLUORIDE, NITRATE & NITRITE COMPOUNDS (PROCEDURE 3)

Analyte	Detection Limit (ug/L)	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration		
Aluminum	<0.5	Boron	<0.03	Iron	<3	Nickel	<0.05	Thallium	<0.09
Antimony	<0.03	Cadmium	<0.03	Lead	<0.05	Potassium	<50	Tin	<0.01
Arsenic	<0.01	Calcium	<3	Lithium	<0.1	Selenium	<0.5	Vanadium	<0.1
Barium	<0.03	Chloride	<1	Magnesium	<4	Silver	<0.02	Zinc	<0.3
Beryllium	<0.01	Chromium	<0.06	Manganese	<0.1	Sodium	<6	Fluoride	<1
		Cobalt	<0.01	Mercury	<0.2	Strontium	<0.07	Nitrate + Nitrite	<1
		Copper	<0.08	Molybdenum	<0.5	Sulfate	<1		

This certificate only applies to the enclosed containers and not to any added preservative (except HCl vials). ESS uses only Analytical Grade chemicals. All ESS PrePreserved® containers include a case label with the reagent manufacturer and their lot number. Chemical C of A's can be found online using their lot number. For additional assistance or questions, call 800 233-8424 or email at: essorders@essvial.com.

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