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Method 1311 Toxicity Characteristic Leaching Procedure (TCLP)

Volatile Spiking Mixture

TCLP-VOC \$ 30 / 1 x 1 mL
5.0 mg/mL each in MeOH, except 2-Butanone 11 comps.

Benzene	1,2-Dichloroethane
2-Butanone (10 mg/mL)	1,1-Dichloroethene
Carbon tetrachloride	Tetrachloroethene
Chlorobenzene	Trichloroethene
Chloroform	Vinyl chloride
1,4-Dichlorobenzene	

Semi-Volatile Spiking Mix

TCLP-BNA \$ 50 / 1 x 1 mL
TCLP-BNA-PAK **SAVE 20%** \$ 200 / 5 x 1 mL
2.0 mg/mL each in CH₂Cl₂ 13 comps.

<i>o</i> -Cresol	Hexachloroethane
<i>m</i> -Cresol	Nitrobenzene
<i>p</i> -Cresol	Pentachlorophenol
1,4-Dichlorobenzene	Pyridine
2,4-Dinitrotoluene	2,4,5-Trichlorophenol
Hexachlorobenzene	2,4,6-Trichlorophenol
Hexachlorobutadiene	

Semi-Volatile Spiking Set

TCLP-BNA-SET \$ 50 / set of 2 x 1 mL
(includes **TCLP-A** and **TCLP-BN**)

TCLP-A \$ 25 / 1 x 1 mL
TCLP-A-PAK **SAVE 20%** \$ 100 / 5 x 1 mL
2.0 mg/mL each in MeOH 6 comps.

<i>o</i> -Cresol	Pentachlorophenol
<i>m</i> -Cresol	2,4,5-Trichlorophenol
<i>p</i> -Cresol	2,4,6-Trichlorophenol

TCLP-BN \$ 25 / 1 x 1 mL
TCLP-BN-PAK **SAVE 20%** \$ 100 / 5 x 1 mL
2.0 mg/mL each in Acetone 7 comps.

1,4-Dichlorobenzene	Hexachloroethane
2,4-Dinitrotoluene	Nitrobenzene
Hexachlorobenzene	Pyridine
Hexachlorobutadiene	

Pesticide Spiking Mix

TCLP-PES \$ 50 / 1 x 1 mL
TCLP-PES-PAK **SAVE 20%** \$ 200 / 5 x 1 mL
2.0 mg/mL each in MeOH, except Toxaphene 7 comps.

Chlordane	Lindane
Endrin	Methoxychlor
Heptachlor	Toxaphene (4.0 mg/mL)
Heptachlor epoxide	

Pesticide Spiking Set

TCLP-PES-1/2-SET \$ 50 / set of 2 x 1 mL
(includes **TCLP-PES-1** and **TCLP-PES-2**)

TCLP-PES-1 \$ 35 / 1 x 1 mL
TCLP-PES-1-PAK **SAVE 20%** \$ 140 / 5 x 1 mL
2.0 mg/mL each in MeOH 5 comps.

Endrin	Lindane
Heptachlor	Methoxychlor
Heptachlor epoxide	

TCLP-PES-2 \$ 20 / 1 x 1 mL
TCLP-PES-2-PAK **SAVE 20%** \$ 80 / 5 x 1 mL
At stated conc. in MeOH 2 comps.

Chlordane (2.0 mg/mL)	Toxaphene (4.0 mg/mL)
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Herbicide, PFB Derivative Mixture

TCLP-HERB-PFB \$ 40 / 1 x 1 mL
0.1 mg/mL each in MtBE 2 comps.

2,4-D-PFB	2,4,5-TP-PFB
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Herbicide, PFB Derivatives

M-8150-02-PFB \$ 30 / 1 x 1 mL
0.1 mg/mL in MtBE
2,4-D-PFB

M-8150-04-PFB \$ 30 / 1 x 1 mL
0.1 mg/mL in MtBE
2,4,5-TP-PFB

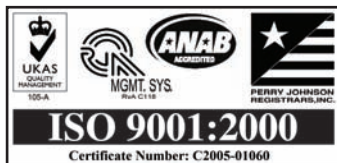
Herbicide Spiking Mixtures

TCLP-HERB \$ 20 / 1 x 1 mL
TCLP-HERB-PAK **SAVE 20%** \$ 80 / 5 x 1 mL
2.0 mg/mL each in MeOH 2 comps.

2,4-D	2,4,5-TP
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TCLP-HERB-ME \$ 20 / 1 x 1 mL
TCLP-HERB-ME-PAK **SAVE 20%** \$ 80 / 5 x 1 mL
2.0 mg/mL each in MeOH 2 comps.

2,4-D, Me	2,4,5-TP, Me
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Method 1311 TCLP Regulatory Level Mixtures

Volatiles

TCLP-QC			\$ 40 / 1 x 1 mL
TCLP-QC-PAK			SAVE 20% \$ 160 / 5 x 1 mL
<i>At stated conc. in MeOH</i>			
Benzene	(5 µg/mL)	1,2-Dichloroethane	(5 µg/mL)
2-Butanone	(2000 µg/mL)	1,1-Dichloroethene	(7 µg/mL)
Carbon tetrachloride	(5 µg/mL)	Tetrachloroethene	(7 µg/mL)
Chlorobenzene	(1000 µg/mL)	Trichloroethene	(5 µg/mL)
Chloroform	(60 µg/mL)	Vinyl chloride	(2 µg/mL)

Pesticides

TCLP-PES-1/2-QC-SET			\$ 50 / set of 2 x 1 mL
<i>(includes TCLP-PEST-1-QC & TCLP-PEST-2-QC)</i>			
TCLP-PES-1-QC			\$ 35 / 1 x 1 mL
TCLP-PES-1-QC-PAK			SAVE 20% \$ 140 / 5 x 1 mL
<i>At stated conc. in MeOH</i>			
Endrin	(0.2 µg/mL)	Lindane	(4.0 µg/mL)
Heptachlor	(0.4 µg/mL)	Methoxychlor	(100 µg/mL)
Heptachlor epoxide	(0.04 µg/mL)		

TCLP-PES-2-QC			\$ 20 / 1 x 1 mL
TCLP-PES-2-QC-PAK			SAVE 20% \$ 80 / 5 x 1 mL
<i>At stated conc. in MeOH</i>			
Chlordane	(0.3 µg/mL)	Toxaphene	(5.0 µg/mL)

Semi-Volatiles

TCLP-BNA-QC			\$ 60 / 1 x 1 mL
<i>At stated conc. in CH₂Cl₂</i>			
<i>o</i> -Cresol	(2000 µg/mL)	Hexachloroethane	(30 µg/mL)
<i>m</i> -Cresol	(2000 µg/mL)	Nitrobenzene	(20 µg/mL)
<i>p</i> -Cresol	(2000 µg/mL)	Pentachlorophenol	(1000 µg/mL)
1,4-Dichlorobenzene	(75 µg/mL)	Pyridine	(50 µg/mL)
2,4-Dinitrotoluene	(1.3 µg/mL)	2,4,5-Trichlorophenol	(4000 µg/mL)
Hexachlorobenzene	(1.3 µg/mL)	2,4,6-Trichlorophenol	(20 µg/mL)
Hexachlorobutadiene	(5 µg/mL)		

Herbicides

TCLP-HERB-ME-QC			\$ 20 / 1 x 1 mL
TCLP-HERB-ME-QC-PAK			SAVE 20% \$ 80 / 5 x 1 mL
<i>At stated conc. in MeOH</i>			
	Concentration as Methyl Deriv.	Concentration as Acid	
2,4-D, ME	(106.3 µg/mL)	(100 µg/mL)	
2,4,5-TP, ME	(10.5 µg/mL)	(10 µg/mL)	

Method 1312 Synthetic Leaching Procedure

Semi-Volatiles

TCLP-BNA-1312			\$ 50 / 1 x 1 mL
TCLP-BNA-1312-PAK			SAVE 20% \$ 200 / 5 x 1 mL
<i>2.0 mg/mL each in CH₂Cl₂</i>			
Acenaphthene		2,4-Dinitrophenol	
β-BHC		2,4-Dinitrotoluene	
γ-BHC		<i>o</i> -Cresol	
bis-2-Chloroethyl ether		2,4-Dimethylphenol	
2-Chlorophenol		Hexachlorobenzene	
1,2-Dichlorobenzene		Hexachlorobutadiene	
1,4-Dichlorobenzene		Nitrobenzene	

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Method 1613 Dioxins & Furans by HRGC/HRMS



Native Solutions of the USEPA Method 1613 analytes. These mixes can also be used for USEPA Method 23, 8280, 8290. They also cover EU Method EN-1948 and Japanese Methods JIS-K0311 and JIS-K0312.

Calibration Set

M-1613-CAL-SET (-01,-02,-03,-04,-05) \$ 2,100 / 5 x 1 mL
All in ng/mL in Nonane 17 comps.

Precision and Recovery Standard

M-1613-PAR Bold (-04) \$ 525 / 1 x 1 mL
M-1613-PAR-PAK \$ 2,100 / 5 x 1 mL
All units in ng/mL in Nonane 17 comps.

M-1613-CAL	-01	-02	-03	-04	-05
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	2	10	40	200
2,3,7,8-Tetrachlorodibenzofuran	0.5	2	10	40	200
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,7,8-Pentachlorodibenzofuran	2.5	10	50	200	1000
2,3,4,7,8-Pentachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,4,7,8-Hexachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,6,7,8-Hexachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,7,8,9-Hexachlorodibenzofuran	2.5	10	50	200	1000
2,3,4,6,7,8-Hexachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.5	10	50	200	1000
1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.5	10	50	200	1000
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	5	20	100	400	2000
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	5	20	100	400	2000

2,3,7,8 Isomers only Mix

This solution is for those labs only determining the concentration of the two most toxic isomers.

M-1613-DF \$ 75 / 1 x 1 mL
40 ng/mL each in Nonane 2 comps.

- 2,3,7,8-Tetrachlorodibenzo-p-dioxin
- 2,3,7,8-Tetrachlorodibenzofuran