

EPA Method 1311

Toxicity Characteristic Leaching Procedure (TCLP)

The TCLP is designed to determine the mobility of both organic and inorganic analytes present in liquid, solid, and multiphase wastes.

To read the complete method, log onto our website at www.ultrasci.com.

Recommended Standards

Calibration Standards:	TCLP-500
	TCLP-511N
	TCLP-520N
	TCLP-530BN
	TCLP-540

TCLP Volatiles Mixture

11 Analytes

benzene
2-butanone (MEK)
carbon tetrachloride
chlorobenzene
chloroform
1,4-dichlorobenzene
1,2-dichloroethane
1,1-dichloroethene
tetrachloroethene
trichloroethene
vinyl chloride

@ 1000 µg/mL in Methanol

TCLP-500	4 x 1 mL	***
TCLP-500-1	1 x 1 mL	***

TCLP Herbicides Spiking Mixture

2 Analytes

2,4-D
2,4,5-TP (Silvex)

Herbicide Acids Mixture

@ 2000 µg/mL in Methanol

TCLP-540	4 x 1 mL	***
TCLP-540-1	1 x 1 mL	***

Methylated Herbicide Mixture

@ 2000 µg/mL in Methanol

TCLP-540M	4 x 1 mL	***
TCLP-540M-1	1 x 1 mL	***

TCLP Base/Neutrals Mixture

7 Analytes

2,4-dinitrotoluene
hexachlorobenzene
hexachlorobutadiene
1,4-dichlorobenzene
hexachloroethane
nitrobenzene
pyridine

@ 1000 µg/mL in Acetone

TCLP-511N	4 x 1 mL	***
TCLP-511N-1	1 x 1 mL	***

TCLP Acids Mixture

6 Analytes

o-cresol
m-cresol
p-cresol
pentachlorophenol
2,4,5-trichlorophenol
2,4,6-trichlorophenol

@ 1000 µg/mL in Methanol

TCLP-520N	4 x 1 mL	***
TCLP-520N-1	1 x 1 mL	***

TCLP Pesticides Mixture

5 Analytes

γ-BHC (lindane)
heptachlor
heptachlor epoxide (B)
endrin
methoxychlor (1000 µg/mL)

@ 100 µg/mL in Methanol

TCLP-530BN	4 x 1 mL	***
TCLP-530BN-1	1 x 1 mL	***



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TCLP Semi-Volatiles Spiking Mix

13 Analytes

o-cresol
m-cresol
p-cresol
 1,4-dichlorobenzene
 2,4-dinitrotoluene
 hexachlorobenzene
 hexachlorobutadiene
 hexachloroethane
 nitrobenzene
 pentachlorophenol
 pyridine
 2,4,5-trichlorophenol
 2,4,6-trichlorophenol

@ 2000 µg/mL in Methylene Chloride

TCLP-512 4 x 1 mL ***
TCLP-512-1 1 x 1 mL ***

TCLP Pesticides Spiking Mixture

7 Analytes

chlordane
 endrin
 heptachlor
 heptachlor epoxide (B)
 γ -BHC (*lindane*)
 methoxychlor
 toxaphene (4000 µg/mL)

@ 2000 µg/mL in Methanol

TCLP-531 4 x 1 mL ***
TCLP-531-1 1 x 1 mL ***

TCLP Pesticides Spiking Mixture

5 Analytes

endrin
 heptachlor
 heptachlor epoxide (B)
 γ -BHC (*lindane*)
 methoxychlor

@ 2000 µg/mL in Methanol

TCLP-532 4 x 1 mL ***
TCLP-532-1 1 x 1 mL ***

TCLP Pesticides Spiking Mixture

2 Analytes

chlordane 2000 µg/mL
 toxaphene 4000 µg/mL

in Methanol

TCLP-533 4 x 1 mL ***
TCLP-533-1 1 x 1 mL ***

EPA Method 1664, 1664A**Oil and Grease, and Total Petroleum Hydrocarbons**

Method 1664 is a gravimetric method allowing determination of *n*-hexane extractable material (HEM) in surface and saline waters, and in industrial and domestic aqueous wastes. Extractable materials that may be determined are relatively non-volatile hydrocarbons, vegetable oils, animal fats, waxes, soaps, greases, and related materials.

To read the complete method, log onto our website at www.ultrasci.com.

EPA Method 1664, 1664A Precision, Accuracy, and Recovery Standard

2 Analytes

n-hexadecane
 stearic acid

@ 4000 µg/mL in Acetone

RGO-101X 1 x 100 mL ***

EPA Method 1664, 1664A Precision, Accuracy, and Recovery Standard

2 Analytes

n-hexadecane
 stearic acid

@ 2000 µg/mL in Acetone

RGO-102X 1 x 100 mL ***

Technical Note

These standards often crystallize on standing. Always check for crystals before use. For best results, always equilibrate the standards in an ultrasonic bath to ensure complete dissolution.