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Absolute Standards has updated and expanded its UST section. We now offer a more extensive list of current state specific methods, as well as petrochemical mixes. Keep in mind that we can also formulate your own custom designed mix under the auspices of our ISO certifications.

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the actual GC, LC, or ICP-MS analysis.**

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beyond

the industry standard.

**GASOLINE COMPONENT &
HYDROCARBON MIXTURES**

GASOLINE COMPONENT MIX #1

2000 ug/mL in Methanol

- | | |
|----------------------------|------------------------------|
| (1) 2-Methylbutane | (11) o-Xylene |
| (2) m-Xylene | (12) Ethylbenzene |
| (3) 2,2,4-Trimethylpentane | (13) Benzene |
| (4) Toluene | (14) p-Xylene |
| (5) 2-Methylpentane | (15) 2,3-Dimethylbutane |
| (6) 1,2,4-Trimethylbenzene | (16) n-Hexane |
| (7) n-Pentane | (17) 1-Methyl-3-ethylbenzene |
| (8) 2,3,4-Trimethylpentane | (18) 1-Methyl-4-ethylbenzene |
| (9) 2,3,3-Trimethylpentane | (19) 3-Methylhexane |
| (10) 3-Methylpentane | |

Part # 90222 1 mL

GASOLINE COMPONENT MIX #2

Varied concentrations in Methanol

| <i>Component</i> | <i>Conc. (ug/mL)</i> |
|-----------------------------|----------------------|
| (1) 2-Methylpentane | 1500 |
| (2) 2,2,4-Trimethylpentane | 1500 |
| (3) Heptane | 500 |
| (4) Benzene | 500 |
| (5) Toluene | 1500 |
| (6) Ethylbenzene | 500 |
| (7) m-Xylene | 1000 |
| (8) p-Xylene | 1000 |
| (9) o-Xylene | 1000 |
| (10) 1,2,4-Trimethylbenzene | 1000 |

Part # 90221 1 mL

BTEX

200 ug/mL in Methanol

- (1) Benzene
- (2) Toluene
- (3) Ethyl benzene
- (4) o-Xylene
- (5) m-Xylene
- (6) p-Xylene
- (7) MTBE

Part # 90728 1 mL

**BTEX IN GASOLINE
87 OCTANE**

20 mg/mL in Methanol

Part # 51146 1 mL

GASOLINE COMPONENT & HYDROCARBON MIXTURES

UST PETRO- CHEMICALS

HYDROCARBON MIX #1

2000 ug/mL in Methanol

C₆ - C₁₅ n-Hydrocarbons

Part # 90137 1 mL

HYDROCARBON MIX #2

2000 ug/mL in Methylene chloride

C₆ - C₂₈ n-Hydrocarbons

Part # 90814 1 mL

HYDROCARBON MIX #3

1000 ug/mL in Methylene Chloride

C₈ - C₂₀ n-Hydrocarbons

Part # 90967 1 mL

HYDROCARBON MIX #4

2000 ug/mL in Methylene chloride

C₆ - C₃₂ n-Hydrocarbons

Part # 91259 1 mL

DIESEL STANDARD

2000 ug/mL in Hexane

C₁₀ - C₂₈ n-Hydrocarbons, Excluding C₂₇

Part # 90138 1 mL

VOLATILE GRO MIX

2000 ug/mL in Methanol

- (1) Benzene
- (2) n-Decane
- (3) Ethyl benzene
- (4) n-Heptane
- (5) n-Hexane
- (6) n-Nonane
- (7) n-Octane
- (8) n-Pentane
- (9) Toluene
- (10) 1,2,4-Trimethylbenzene
- (11) 1,3,5-Trimethylbenzene
- (12) o-Xylene
- (13) m-Xylene
- (14) p-Xylene

Part # 92555 1 mL

GASOLINE ADDITIVES MIXTURE

1000 ug/mL in Methylene chloride

- (1) Dibromomethane
- (2) 1,2-Dichloroethane
- (3) Ethylene dibromide
- (4) Methyl tert-butyl ether

Part # 51173 1 mL

**UST
PETRO-
CHEMICALS**

**INTERNAL STANDARDS AND
SURROGATES APPLICABLE TO UST
METHODOLOGIES**

| | Gasoline Range | Part # | ug/mL | Solvent |
|-----|--------------------------|---------------|--------------|----------------|
| (1) | 4-Bromofluorobenzene | 70048 | 1000 | Methanol |
| (2) | 4-Bromofluorobenzene | 90804 | 20000 | Methanol |
| (3) | a,a,a-Trifluorotoluene | 70299 | 1000 | Methanol |
| (4) | a,a,a-Trifluorotoluene | 19297 | 20000 | Methanol |
| (5) | 1-Chlorooctane | 72087 | 1000 | Methanol |
| (6) | 1-Chloro-4-fluorobenzene | 70905 | 1000 | Methanol |

| | Diesel Range | Part # | ug/mL | Solvent |
|------|---------------------|---------------|--------------|-------------------|
| (1) | p-Terphenyl | 71227 | 1000 | MeCl ₂ |
| (2) | p-Terphenyl | 91296 | 4000 | MeCl ₂ |
| (3) | o-Terphenyl | 71225 | 1000 | Methanol |
| (4) | o-Terphenyl | 91720 | 10000 | Methanol |
| (5) | o-Terphenyl | 91738 | 5000 | MeCl ₂ |
| (6) | 2-Fluorobiphenyl | 70187 | 1000 | Methanol |
| (7) | 2-Fluorobiphenyl | 12009 | 4000 | MeCl ₂ |
| (8) | 5-a-Androstane | 70372 | 1000 | Methanol |
| (9) | 5-a-Androstane | 91740 | 4000 | MeCl ₂ |
| (10) | 1-Chlorooctadecane | 71604 | 1000 | Acetone |

RETENTION TIME MARKER SOLUTIONS

2000 ug/mL in Methylene chloride 2000 ug/mL in Methylene chloride

- (1) n-Hexane
- (2) n-Decane
- (3) n-Dodecane

- (1) n-Decane
- (2) n-Pentacosane
- (3) n-Hexatriacontane

Part # 51172 1 mL

Part # 51183 1 mL

**LUST RETENTION TIME
STANDARD**

2000 ug/mL in Methylene chloride

- (1) n-Hexane
- (2) n-Decane
- (3) n-Dodecane
- (4) n-Tetracosane
- (5) n-Octacosane
- (6) n-Triacontane
- (7) n-Tetracontane

Part # 51184 1 mL

**GASOLINE, DIESEL, JET,
HOUSEHOLD,
INDUSTRIAL SOLVENTS**

**UST
PETRO-
CHEMICALS**

MOTOR FUELS AND OILS \$25/ 1 mL

| Part # | Compound | Solvent | Conc. (mg/mL) |
|---------------|------------------------------|-----------------------|----------------------|
| 51001 | Unleaded Gasoline 93 Octane | in methanol | 20 |
| 51010 | Unleaded Gasoline 87 Octane | in methanol | 20 |
| 51006 | #2 Fuel Oil Diesel | in methylene chloride | 20 |
| 51016 | #2 Fuel Oil Diesel | in methanol | 20 |
| 51030 | SAE 30 W motor oil | in methylene chloride | 20 |
| 51040 | SAE 40 W motor oil | in methylene chloride | 20 |
| 51050 | SAE 50 W motor oil | in methylene chloride | 20 |
| 51094 | Motor Oil Composite Standard | in methylene chloride | 50 |

Heating Fuels and Oils

| | | | |
|-------|--------------------------|-----------------------|----|
| 51020 | #2 Fuel Oil Home Heating | in methylene chloride | 20 |
| 51022 | Kerosene K2 | in methylene chloride | 20 |

Aviation Fuels and Oils

| | | | |
|-------|-----------------------|-----------------------|----|
| 51023 | Jet A Fuel (Aviation) | in methylene chloride | 20 |
| 51003 | JP-4 Fuel | in methylene chloride | 20 |
| 51004 | JP-5 Fuel | in methylene chloride | 20 |
| 51007 | JP-8 Fuel | in methylene chloride | 20 |
| 51011 | JP-TS | in methylene chloride | 20 |
| 51014 | Hydraulic oil | in methylene chloride | 20 |

Household & Industrial Solvents

| | | | |
|-------|-----------------|-----------------------|----|
| 51015 | Lacquer thinner | in methylene chloride | 20 |
| 51018 | Mineral spirits | in methylene chloride | 20 |
| 51019 | Naphtha | in methylene chloride | 20 |
| 51024 | Turpentine | in methylene chloride | 20 |
| 51025 | Stoddard | in methylene chloride | 20 |

All solutions are 1mL

OIL REMEDIATION PROTOCOL
SPILL RISK ASSESSMENT
OIL ANALYSIS STANDARD
100 ug/mL in Hexane/Methylene Chloride (9:1)

| | | |
|--------------------|-------------------------|-----------------------------|
| (1) n-Decane | (16) n-Pentacosane | (31) Fluoranthene |
| (2) n-Undecane | (17) n-Hexacosane | (32) Pyrene |
| (3) n-Dodecane | (18) n-Heptacosane | (33) Chrysene |
| (4) n-Tridecane | (19) n-Octacosane | (34) Benzo(b)fluoranthene |
| (5) n-Tetradecane | (20) n-Nonacosane | (35) Benzo(k)fluoranthene |
| (6) n-Pentadecane | (21) n-Triacontane | (36) Benzo(e)pyrene |
| (7) n-Hexadecane | (22) n-Hentriacontane | (37) Benzo(a)pyrene |
| (8) n-Heptadecane | (23) n-Dotriacontane | (38) Perylene |
| (9) n-Octadecane | (24) n-Tritriacontane | (39) Indeno(1,2,3 cd)pyrene |
| (10) n-Nonadecane | (25) n-Tetratriacontane | (40) Dibenzo(a,h)anthracene |
| (11) n-Eicosane | (26) n-Pentatriacontane | (41) Benzo (g,h,i)perylene |
| (12) n-Heneicosane | (27) Naphthalene | (42) Pristane |
| (13) n-Docosane | (28) Fluorene | (43) Phytane |
| (14) n-Tricosane | (29) Dibenzothiophene | (44) Anthracene |
| (15) n-Tetracosane | (30) Phenanthrene | |

Part # 90311 1 mL
ALIPHATIC OIL ANALYSIS - MIX #1
200 ug/mL in Methylene Chloride

| | | |
|-------------------|--------------------|-------------------------|
| (1) n-Decane | (11) n-Eicosane | (20) n-Nonacosane |
| (2) n-Undecane | (12) n-Heneicosane | (21) n-Triacontane |
| (3) n-Dodecane | (13) n-Docosane | (22) n-Hentriacontane |
| (4) n-Tridecane | (14) n-Tricosane | (23) n-Dotriacontane |
| (5) n-Tetradecane | (15) n-Tetracosane | (24) n-Tritriacontane |
| (6) n-Pentadecane | (16) n-Pentacosane | (25) n-Tetratriacontane |
| (7) n-Hexadecane | (17) n-Hexacosane | (26) n-Pentatriacontane |
| (8) n-Heptadecane | (18) n-Heptacosane | (27) Pristane |
| (9) n-Octadecane | (19) n-Octacosane | (28) Phytane |
| (10) n-Nonadecane | | |

Part # 91942 1 mL
FUEL OIL DEGRADATION MIXTURE
2000 ug/mL in Methylene chloride

- (1) n-Heptadecane
- (2) n-Octadecane
- (3) Pristane
- (4) Phytane

Part # 51147 1 mL

**OIL & GREASE /
TOTAL PETROLEUM
HYDROCARBONS (TPH)**

**UST
PETRO-
CHEMICALS**

**OIL & GREASE
EPA METHOD 1664**

8 mg/mL (Total) in Acetone

- (1) n-Hexadecane
- (2) Stearic acid

Part # 91958 100 mL

**TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 418.1**

- (1) 2,2,4-Trimethylpentane (Iso-octane) (31.4%)
- (2) n-Hexadecane (35.1%)
- (2) Chlorobenzene (33.5%)

Part # 71127 5 mL

OIL & GREASE- EPA METHOD 413

1 mg/mL (Total) in n-Propanol / Glycerol

- (1) Paraffin Oil
- (2) Cooking oil (Soy)

Part # 54135 100 mL

**SKINNER LIST FOR
REFINERY WASTE**

VOLATILES

200 ug/mL in Methanol/Water [9:1]

- | | |
|-----------------------------|----------------------------|
| (1) Benzene | (9) Ethylbenzene |
| (2) Carbon disulphide | (10) Ethylene dibromide |
| (3) Chlorobenzene | (11) Methyl ethyl ketone |
| (4) Chloroform | (12) Styrene |
| (5) 1,2-Dichloroethane | (13) Toluene |
| (6) 1,1-Dichloroethane | (14) Tetrachloroethene |
| (7) 1,4-Dioxane | (15) 1,1,1-Trichloroethane |
| (8) Methyl tert-butyl ether | (16) Trichloroethene |
| | (17) Xylenes (total) |

Part # 60054 1 mL

**SEMI-VOLATILES
BASE/NEUTRALS EXTRACTABLES**

200 ug/mL in Methylene chloride

- | | |
|--------------------------------|--------------------------------------|
| (1) Anthracene | (15) Diethyl phthalate |
| (2) Benzo(a)anthracene | (16) 7,12-Dimethylbenzo(a)anthracene |
| (3) Benzo(b)fluoranthene | (17) Dimethyl phthalate |
| (4) Benzo(j)fluoranthene | (18) Di-n-butyl phthalate |
| (5) Benzo(k)fluoranthene | (19) Di-n-octyl phthalate |
| (6) Benzo(a)pyrene | (20) Indene |
| (7) Bis(2-ethylhexyl)phthalate | (21) Fluoranthene |
| (8) Butyl benzyl phthalate | (22) 6-Methyl chrysene |
| (9) Chrysene | (23) 1-Methylnaphthalene |
| (10) Dibenzo(a,h)acridine | (24) Naphthalene |
| (11) Dibenzo(a,h)anthracene | (25) Phenanthrene |
| (12) 1,2-Dichlorobenzene | (26) Pyrene |
| (13) 1,3-Dichlorobenzene | (27) Pyridine |
| (14) 1,4-Dichlorobenzene | (28) Quinoline |

Part # 60003 1 mL

ACID EXTRACTABLES

200 ug/mL in Methylene chloride

- | | |
|------------------------|-----------------------|
| (1) o-Cresol | (5) 2,4-Dinitrophenol |
| (2) m-Cresol | (6) 4-Nitrophenol |
| (3) p-Cresol | (7) Phenol |
| (4) 2,4-Dimethylphenol | (8) Thiophenol |

Part # 60004 1 mL

ALASKA METHOD 101- GRO IN WATER AND SOIL

UST STATE METHODS

The Alaska 101 method is designed to measure the concentration of gasoline range organics, (GRO) in water and soil. In particular, this method is applicable to n-alkanes ranging from the beginning of C6 to the beginning of C10 in volatile petroleum products with analysis using capillary column GC-FID or PID/FID.

GRO STANDARD C6-C10

*2000 ug/mL in
Methylene Chloride*

- (1) n-Hexane
- (2) n-Heptane
- (3) n-Octane
- (4) n-Nonane
- (5) n-Decane

Part # 51134 1 mL

BTEX

*200 ug/mL in
Methanol*

- (1) Benzene
- (2) Toluene
- (3) Ethyl benzene
- (4) o-Xylene
- (5) m-Xylene
- (6) p-Xylene
- (7) MTBE

Part # 90728 1 mL

UNLEADED GASOLINE 87 OCTANE

20 mg/mL in Methylene chloride

Part # 51028 1 mL

UNLEADED GASOLINE 93 OCTANE

20 mg/mL in Methylene chloride

Part # 51035 1 mL

AK101 RETENTION TIME VERIFICATION STANDARD

2000 ug/mL in Methylene chloride

- (1) n-Hexane
- (2) n-Decane

Part # 51171 1 mL

AK101 INTERNAL STANDARD

1000 ug/mL in Methanol

1-Chloro-4-fluorobenzene

Part # 70905 1 mL

AK101 SURROGATE STANDARD

20 mg/mL in Methanol

4-Bromofluorobenzene

Part # 90804 1 mL

AK101 SURROGATE STANDARD

20 mg/mL in Methanol

a,a,a-Trifluorotoluene

Part # 19297 1 mL

**UST
STATE
METHODS**

**ALASKA METHOD 102-
DRO IN WATER AND SOIL**

The Alaska 102 method is designed to measure the concentration of diesel range organics, (DRO) C10-C25, in water and soil. In particular, this method is applicable to semi-volatile petroleum products with analysis using capillary column GC-FID.

**AK-102
DRO STANDARD
C10-C25**

2000 ug/mL in Methylene Chloride

- (1) n-Decane
- (2) n-Undecane
- (3) n-Dodecane
- (4) n-Tridecane
- (5) n-Tetradecane
- (6) n-Pentadecane
- (7) n-Hexadecane
- (8) n-Heptadecane
- (9) n-Octacosane
- (10) n-Nonadecane
- (11) n-Eicosane
- (12) n-Heneicosane
- (13) n-Docosane
- (14) n-Tricosane
- (15) n-Tetracosane
- (16) n-Pentacosane

Part # 51175 1 mL

**AK-102 DRO
DIESEL STANDARD**

20 mg/mL in Methylene chloride

#2 Diesel Fuel

Part # 51006 1 mL

**AK-102 DRO
KEROSENE STANDARD**

20 mg/mL in Methylene chloride

Kerosene K2

Part # 51022 1 mL

**AK102 DRO
RETENTION TIME
WINDOW STANDARD**

2000 ug/mL in Methylene chloride

- (1) n-Decane
- (2) n-Pentacosane

Part # 51174 1 mL

**AK-102 DRO
SURROGATE STANDARD**

2000 ug/mL in Methanol

o-Terphenyl

Part # 91125 1 mL

**AK-102 DRO
INTERNAL STANDARD**

1000 ug/mL in Methanol

5-alpha-androstane

Part # 70372 1 mL

ALASKA METHOD 103- RRO IN SOIL

UST STATE METHODS

The Alaska 103 method is designed to measure the concentration of residual range organics, (RRO) C25-C36, in soil. In particular, this method is applicable to heavy petroleum products including lubricating and motor oils. Analysis employs capillary column GC-FID.

AK-103 RRO STANDARD C25-C36

1000 ug/mL in Methylene Chloride

- (1) n-Pentacosane
- (2) n-Hexacosane
- (3) n-Heptacosane
- (4) n-Octacosane
- (5) n-Nonacosane
- (6) n-Triacontane
- (7) n-Hentriacontane
- (8) n-Dotriacontane
- (9) n-Tritriacontane
- (10) n-Tetratriacontane
- (11) n-Pentatriacontane
- (12) n-Hexatriacontane

Part # 51176 1 mL

AK-103 RRO RETENTION TIME WINDOW SOLUTION

2000 ug/mL in Methylene chloride

- (1) n-Pentacosane
- (2) n-Hexatriacontane

Part # 51177 1 mL

AK-103 RRO CALIBRATION STANDARD *Equal weight%*

30W Motor Oil/ 40W Motor Oil [1:1]

Part # 51178 1 mL

AK-103 RRO SURROGATE STANDARD *2000 ug/mL in Methylene chloride*

n-Triacontane-d₆₂

Part # 51180 1 mL

UST
STATE
METHODS

ARIZONA 8015AZ

GRO STANDARD
C6-C10

*2000 ug/mL in
Methylene Chloride*

- (1) n-Hexane
- (2) n-Heptane
- (3) n-Octane
- (4) n-Nonane
- (5) n-Decane

Part # 51134 1 mL

SURROGATE STANDARD

*1000 ug/mL in Methanol
o-Terphenyl*

Part # 71225 1 mL

RETENTION TIME

Verification Standard

2000 ug/mL in Methylene chloride

- (1) n-Decane
- (2) n-Docosane
- (3) n-Dotriacontane

Part # 51136 1 mL

DRO & ORO STANDARD
C10-C32

2000 ug/mL in Methylene Chloride

- (1) n-Decane
- (2) n-Undecane
- (3) n-Dodecane
- (4) n-Tridecane
- (5) n-Tetradecane
- (6) n-Pentadecane
- (7) n-Hexadecane
- (8) n-Heptadecane
- (9) n-Octacosane
- (10) n-Nonadecane
- (11) n-Eicosane
- (12) n-Heneicosane
- (13) n-Docosane
- (14) n-Tricosane
- (15) n-Tetracosane
- (16) n-Pentacosane
- (17) n-Hexacosane
- (18) n-Heptacosane
- (19) n-Octacosane
- (20) n-Nonacosane
- (21) n-Triacontane
- (22) n-Hentriacontane
- (23) n-Dotriacontane

Part # 51135 1 mL

8015AZ CALIBRATION STANDARD

10 mg/mL in Methylene chloride

- (1) #2 Diesel
- (2) 10W 30 Motor Oil

Part # 51096 1 mL

CALIFORNIA PVOC/ WIP

UST
STATE
METHODS

STATE OF CALIFORNIA PVOC METHOD*2000 ug/mL in Methanol*

- | | |
|--------------------------|--------------|
| (1) Benzene | (5) o-Xylene |
| (2) Toluene | (6) m-Xylene |
| (3) Ethylbenzene | (7) p-Xylene |
| (4) Methyl-t-butyl ether | |

Part # 90326 1 mL**OXYGENATES IN
GASOLINE MIX #1***2500 ug/mL in Methanol*

- (1) tert-Amyl methyl ether
- (2) tert-Butyl ethyl ether
- (3) Di-isopropyl ether
- (4) Methyl tert-butyl ether (MTBE)

Part # 92005 1 mL**METHANOL***10 mg/mL in Water***Part # 91684 1 mL****ETHANOL***10 mg/mL in Water***Part # 91683 1 mL****OXYGENATES IN
GASOLINE MIX #2***2000* ug/mL in Methanol*

- (1) tert-Amyl methyl ether
- (2) tert-Butyl ethyl ether
- (3) Di-isopropyl ether
- (4) Methyl tert-butyl ether (MTBE)
- (5) * tert-Butanol @ [20,000 ug/mL]

Part # 92450 1 mL**GLYCOLS STANDARD***5000 ug/mL in Water*

- (1) Ethylene glycol
- (2) Propylene glycol

Part # 91766 1 mL**PURGEABLE AROMATICS
LOS ANGELES COUNTY****WELL INVESTIGATION PROGRAM (WIP)**

- | | |
|-------------------------|-----------------------------|
| (1) Benzene | (7) Methyl tert-butyl ether |
| (2) Chlorobenzene | (8) Toluene |
| (3) Ethylbenzene | (9) o-Xylene |
| (4) 1,2-Dichlorobenzene | (10) m-Xylene |
| (5) 1,3-Dichlorobenzene | (11) p-Xylene |
| (6) 1,4-Dichlorobenzene | |

Part # 19098 200 ug/mL in Methanol.**1 mL Part # 19198 2000 ug/mL in Methanol. 1 mL**

**CONNECTICUT
n-HYDROCARBONS (EPH)**

2000 ug/mL in Hexane

- (1) n-Nonane
- (2) n-Decane
- (3) n-Dodecane
- (4) n-Tetradecane
- (5) n-Hexadecane
- (6) n-Octadecane
- (7) n-Nonadecane
- (8) n-Eicosane
- (9) n-Docosane
- (10) n-Tetracosane
- (11) n-Hexacosane
- (12) n-Octacosane
- (13) n-Triacontane
- (14) n-Hexatriacontane

Part # 91488 1 mL

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FLORIDA TPH

**UST
STATE
METHODS**

FLORIDA-PRO -TOTAL PETROLEUM HYDROCARBONS

100 ug/mL in Methylene chloride

C₈ - C₄₀ n-Hydrocarbons (Even # Carbons)

Part # 91407 1 mL

**FL TPH
RETENTION TIME MARKER
SOLUTION**

2000 ug/mL in Methylene chloride

- (1) n-Hexane
- (2) n-Decane
- (3) n-Dodecane

Part # 51172 1 mL

**FL TPH
SURROGATE STANDARD**

1000 ug/mL in Toluene

n-Nonatriacontane

Part # 71407 1 mL

*See Massachusetts UST section (p.23-26)
for other applicable mixes.*

**UST
STATE
METHODS**

IOWA OA-1

IOWA- OA-1 is applicable for the determination of volatile petroleum hydrocarbons found in gasoline in water and soil. Such volatile organic constituents are analyzed by purge and trap gas chromatography with detection by FID or FID/PID.

**IOWA OA-1
RETENTION TIME
MARKER SOLUTION**

2000 ug/mL in Methylene chloride

- (1) n-Hexane
- (2) n-Decane
- (3) n-Dodecane

Part # 51172 1 mL

**UNLEADED GASOLINE
87 OCTANE**

20 mg/mL in Methylene chloride

Part # 51028 1 mL

**UNLEADED GASOLINE
93 OCTANE**

20 mg/mL in Methylene chloride

Part # 51035 1 mL

IOWA BTEX MIX

2000 ug/mL in Methanol

- | | |
|-------------------|----------------------|
| (1) Benzene | (6) Isopropylbenzene |
| (2) Toluene | (7) o-Xylene |
| (3) Ethyl benzene | (8) m-Xylene |
| (4) MTBE | (9) p-Xylene |
| (5) Naphthalene | |

Part # 51181 1 mL

IOWA OA-2

UST
STATE
METHODS

IOWA- OA-2 is applicable for the gas chromatographic determination of low volatile petroleum products and related organic constituents found in water and solid matrices. Identity may be determined using GC/MS and chromatographic overlaying is acceptable.

| Part # | Compound | Solvent | mg/mL |
|--------|------------------------------|-----------------------|-------|
| 51006 | #2 Fuel Oil Diesel | in methylene chloride | 20 |
| 51016 | #2 Fuel Oil Diesel | in methanol | 20 |
| 51030 | SAE 30 W motor oil | in methylene chloride | 20 |
| 51040 | SAE 40 W motor oil | in methylene chloride | 20 |
| 51050 | SAE 50 W motor oil | in methylene chloride | 20 |
| 51094 | Motor Oil Composite Standard | in methylene chloride | 50 |
| 51020 | #2 Fuel Oil Home Heating | in methylene chloride | 20 |
| 51022 | Kerosene K2 | in methylene chloride | 20 |
| 51014 | Hydraulic oil | in methylene chloride | 20 |
| 51015 | Lacquer thinner | in methylene chloride | 20 |
| 51018 | Mineral spirits | in methylene chloride | 20 |
| 51019 | Naphtha | in methylene chloride | 20 |
| 51024 | Turpentine | in methylene chloride | 20 |
| 51025 | Stoddard | in methylene chloride | 20 |

All Petroleum products- 1mL

IOWA OA-2
RETENTION TIME MARKER SOLUTION

2000 ug/mL in Methylene chloride

- (1) n-Decane
- (2) n-Pentacosane
- (3) n-Hexatriacontane

Part # 51183 1 mL

UST STATE METHODS

MAINE GRO & DRO

GRO ANALYTES

1000 ug/mL in Methanol

- (1) Benzene
- (2) Toluene
- (3) Ethyl benzene
- (4) o-Xylene
- (5) m-Xylene
- (6) p-Xylene
- (7) 1,2,4-Trimethylbenzene
- (8) 1,3,5-Trimethylbenzene
- (9) MTBE
- (10) Napthalene

Part # 90379 1 mL

DRO ANALYTES

in Hexane

- (1) Decane
- (2) Dodecane
- (3) Tetradecane
- (4) Hexadecane
- (5) Octadecane
- (6) Eicosane
- (7) Docosane
- (8) Tetracosane
- (9) Hexacosane
- (10) Octacosane

Part # 90322 @ 2000 ug/mL 1 mL

Part # 91034 @ 10000 mg/mL 1 mL

GASOLINE COMPONENTS

Varied Concentrations in Methanol

| <i>Component</i> | <i>(ug/mL)</i> |
|----------------------------|----------------|
| (1) Benzene | 500 |
| (2) Toluene | 1500 |
| (3) Ethyl benzene | 500 |
| (4) o-Xylene | 1000 |
| (5) m-Xylene | 1000 |
| (6) p-Xylene | 1000 |
| (7) 1,2,4-Trimethylbenzene | 1000 |
| (8) 2,2,4-Trimethylpentane | 1500 |
| (9) Heptane | 500 |
| (10) 2-Methylpentane | 1500 |

Part # 90221 1 mL

SURROGATE STANDARDS

| | | | | |
|------|------------------------|-------|------|-------------------|
| DRO | o-Terphenyl | 71225 | 1000 | Methanol |
| DRO | o-Terphenyl | 91125 | 2000 | Methanol |
| DRO | p-Terphenyl | 71227 | 1000 | MeCl ₂ |
| DRO | 5-alpha-androstane | 70372 | 1000 | Methanol |
| GRO | 4-Bromofluorobenzene | 70048 | 1000 | Methanol |
| GRO | 4-Bromofluorobenzene | 19267 | 2000 | Methanol |
| *GRO | a,a,a-Trifluorotoluene | 70299 | 1000 | Methanol |

**(Soil Matrix)*

MASSACHUSETTS EPH
REV 1.1

UST
STATE
METHODS

Aromatic Hydrocarbons
(EPH)

2000 ug/mL in Methylene chloride

- (1) Acenaphthene
- (2) Acenaphthylene
- (3) Anthracene
- (4) Benzo(a)anthracene
- (5) Benzo(a)pyrene
- (6) Benzo(b)fluoranthene
- (7) Benzo(k)fluoranthene
- (8) Benzo(g,h,i)perylene
- (9) Chrysene
- (10) Dibenzo(a,h)anthracene
- (11) Fluoranthene
- (12) Fluorene
- (13) Indeno(1,2,3-cd)pyrene
- (14) 2-Methylnaphthalene
- (15) Naphthalene
- (16) Phenanthrene
- (17) Pyrene

Part # 51073 1 mL

Part # 50003 5 mL

n-Hydrocarbons
(EPH)

2000 ug/mL in Hexane

- (1) n-Nonane
- (2) n-Decane
- (3) n-Dodecane
- (4) n-Tetradecane
- (5) n-Hexadecane
- (6) n-Octadecane
- (7) n-Nonadecane
- (8) n-Eicosane
- (9) n-Docosane
- (10) n-Tetracosane
- (11) n-Hexacosane
- (12) n-Octacosane
- (13) n-Triacontane
- (14) n-Hexatriacontane

Part # 91488 1 mL

Part # 93459 5 mL

LABORATORY METHOD BLANKS (LMB)

Water Blank LMB (VPH)

40 mL in VOA Vial

Part # 51091 40 mL

Soil LMB (Organics)

10 g in VOA Vial

Part # 91915 10 g

UST

STATE

METHODS

MASSACHUSETTS EPH

REV 1.1

Matrix Spike (EPH)

200 ug/mL in

Hexane:Methylene chloride[9:1]

- (1) Acenaphthene
- (2) Acenaphthylene
- (3) Anthracene
- (4) Benzo(a)anthracene
- (5) Benzo(a)pyrene
- (6) Benzo(b)fluoranthene
- (7) Benzo(k)fluoranthene
- (8) Benzo(g,h,i)perylene
- (9) Chrysene
- (10) Dibenzo(a,h)anthracene
- (11) Fluoranthene
- (12) Fluorene
- (13) Indeno(1,2,3-cd)pyrene
- (14) 2-Methylnaphthalene
- (15) Naphthalene
- (16) Phenanthrene
- (17) Pyrene
- (18) n-Nonane
- (19) n-Decane
- (20) n-Dodecane
- (21) n-Tetradecane
- (22) n-Hexadecane
- (23) n-Octadecane
- (24) n-Nonadecane
- (25) n-Eicosane
- (26) n-Docosane
- (27) n-Tetracosane
- (28) n-Hexacosane
- (29) n-Octacosane
- (30) n-Triacontane
- (31) n-Hexatriacontane

Part # 51074 1 mL

Matrix Spike (EPH)

2000 ug/mL in Methylene chloride

- (1) n-Nonane
- (2) n-Tetradecane
- (3) n-Nonadecane
- (4) n-Eicosane
- (5) n-Octacosane
- (6) Acenaphthene
- (7) Anthracene
- (8) Chrysene
- (9) Naphthalene
- (10) Pyrene

Part # 91489 1 mL

Fractionation Surrogate (EPH)

2000 ug/mL in Hexane

- (1) 2-Fluorobiphenyl
- (2) 2-Bromonaphthalene

Part # 51089 1 mL

Surrogate Spike (EPH)

2000 ug/mL in Acetone

- (1) o-Terphenyl
- (2) 1-Chlorooctadecane

Part # 51075 1 mL

Petroleum

Reference Standard

#2 Fuel Oil Diesel (EPH)

1 mg/mL in Hexane

Part # 51092 1 mL

**MASSACHUSETTS VPH
REV 1.1**

**UST
STATE
METHODS**

VPH Primary Calibration Spike

Varied ug/mL in Methanol

| | |
|-----------------------------|------|
| (1) Benzene | 500 |
| (2) Toluene | 1500 |
| (3) Ethyl benzene | 500 |
| (4) o-Xylene | 1000 |
| (5) m-Xylene | 1000 |
| (6) p-Xylene | 1000 |
| (7) 1,2,4-Trimethylbenzene | 1000 |
| (8) Methyl tert-butyl ether | 1500 |
| (9) Naphthalene | 1000 |
| (10) n-Pentane | 1000 |
| (11) 2-Methylpentane | 1500 |
| (12) 2,2,4-Trimethylpentane | 1500 |
| (13) n-Nonane | 1000 |
| (14) 2,5-Dibromotoluene | 1000 |
| (15) n-Decane | 1000 |
| (16) n-Butylcyclohexane | 1000 |

Part # 51166 1 mL

VPH Primary Calibration

2000 ug/mL in Methanol

| |
|------------------------------------|
| (1) Benzene |
| (2) Toluene |
| (3) Ethyl benzene |
| (4) o-Xylene |
| (5) m-Xylene |
| (6) p-Xylene |
| (7) 1,2,4-Trimethylbenzene |
| (8) Methyl tert-butyl ether (MTBE) |
| (9) Naphthalene |
| (10) n-Pentane |
| (11) 2-Methylpentane |
| (12) 2,2,4-Trimethylpentane |
| (13) n-Nonane |
| (14) n-Decane |
| (15) n-Butylcyclohexane |

Part # 51167 1 mL

**UST
STATE
METHODS**

**MASSACHUSETTS VPH
REV 1.1**

VPH Matrix Spike

50 ug/mL in Methanol

- (1) Benzene
- (2) Toluene
- (3) Ethyl benzene
- (4) o-Xylene
- (5) m-Xylene
- (6) p-Xylene
- (7) 1,2,4-Trimethylbenzene
- (8) Methyl tert-butyl ether
- (9) Naphthalene
- (10) n-Pentane
- (11) 2-Methylpentane
- (12) 2,2,4-Trimethylpentane
- (13) n-Nonane
- (14) 2,5-Dibromotoluene
- (15) n-Decane
- (16) n-Butylcyclohexane

Part # 93624 1 mL

VPH Surrogate Spike

5000 ug/mL in Methanol

2,5-Dibromotoluene

Part # 91771 1 mL

LABORATORY METHOD BLANKS (LMB)

Water Blank LMB (VPH)

40 mL in VOA Vial

Part # 51091 40 mL

Soil LMB (Organics)

10 g in VOA Vial

Part # 91915 10 g

MICHIGAN GRO**UST
STATE
METHODS****MICHIGAN GRO MIX**

14 components @ 2000 ug/mL in Methanol

- | | |
|-----------------------------|-----------------------------|
| (1) Benzene | (8) Naphthalene |
| (2) 1,2-Dibromoethane | (9) Toluene |
| (3) 1,2-Dichloroethane | (10) 1,2,4-Trimethylbenzene |
| (4) Ethylbenzene | (11) 1,3,5-Trimethylbenzene |
| (5) Isopropylbenzene | (12) o-Xylene |
| (6) 2-Methylnaphthalene | (13) m-Xylene |
| (7) Methyl tert-butyl ether | (14) p-Xylene |

Part # 51182 1 mL

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**UST
STATE
METHODS**

**MISSISSIPPI
GRO & DRO**

GRO Standard

Varied ug/mL in Methanol

| | | |
|------|------------------------|-------|
| (1) | Benzene | 5000 |
| (2) | Toluene | 15000 |
| (3) | Ethyl benzene | 5000 |
| (4) | o-Xylene | 10000 |
| (5) | m-Xylene | 10000 |
| (6) | p-Xylene | 10000 |
| (7) | 1,2,4-Trimethylbenzene | 10000 |
| (8) | 2-Methylpentane | 15000 |
| (9) | 2,2,4-Trimethylpentane | 15000 |
| (10) | n-Heptane | 5000 |

Part # 51179 1 mL

**Tennessee / Mississippi
Diesel Standard**

***C10-C28**

**does not include C27*

2000 ug/mL in Hexane

- (1) Decane
- (2) Undecane
- (3) Dodecane
- (4) Tridecane
- (5) Tetradecane
- (6) Pentadecane
- (7) Hexadecane
- (8) Heptadecane
- (9) Octadecane
- (10) Nonadecane
- (11) Eicosane
- (12) Heneicosane
- (13) Docosane
- (14) Tricosane
- (15) Tetracosane
- (16) Pentacosane
- (17) Hexacosane
- (18) Octacosane

Part # 90138 1 mL

NEW JERSEY & NEW YORK

UST
STATE
METHODS
NJ-TRPH*200 ug/mL in Methylene Chloride*

- | | |
|--------------------|-------------------------|
| (1) n-Decane | (15) n-Tetracosane |
| (2) n-Undecane | (16) n-Pentacosane |
| (3) n-Dodecane | (17) n-Hexacosane |
| (4) n-Tridecane | (18) n-Heptacosane |
| (5) n-Tetradecane | (19) n-Octacosane |
| (6) n-Pentadecane | (20) n-Nonacosane |
| (7) n-Hexadecane | (21) n-Triacontane |
| (8) n-Heptadecane | (22) n-Hentriacontane |
| (9) n-Octadecane | (23) n-Dotriacontane |
| (10) n-Nonadecane | (24) n-Tritriacontane |
| (11) n-Eicosane | (25) n-Tetracontane |
| (12) n-Heneicosane | (26) n-Pentatriacontane |
| (13) n-Docosane | (27) Pristane |
| (14) n-Tricosane | (28) Phytane |

Part # 91942 1 mL**NJ TRPH
SURROGATE
STANDARD***1000 ug/mL in
Methylene chloride*Tetracosane-d₅₀**Part # 72072 1 mL****NYSDEC STARS VOA***16 components @ 2000 ug/mL in Methanol*

- | | |
|--------------------------|-----------------------------|
| (1) Benzene | (9) Naphthalene |
| (2) n-Butylbenzene | (10) n-Propylbenzene |
| (3) sec-Butylbenzene | (11) Toluene |
| (4) tert-Butylbenzene | (12) 1,2,4-Trimethylbenzene |
| (5) Ethylbenzene | (13) 1,3,5-Trimethylbenzene |
| (6) Isopropylbenzene | (14) o-Xylene |
| (7) 4-Isopropyltoluene | (15) m-Xylene |
| (8) Methyl t-butyl ether | (16) p-Xylene |

Part # 92028 1 mL**NYSDEC STARS PAH***16 components @ 2000 ug/mL in Methylene chloride*

- | | |
|------------------------|---|
| (1) Naphthalene | (9) Benzo(b)fluoranthene |
| (2) Anthracene | (10) Benzo(k)fluoranthene |
| (3) Fluorene | (11) Chrysene |
| (4) Phenanthrene | (12) Benzo(a)pyrene |
| (5) Pyrene | (13) Benzo(g,h,i)perylene |
| (6) Acenaphthene | (14) Indeno(1,2,3-cd)perylene |
| (7) Benzo(a)anthracene | (15) Dibenz(a,h)anthracene |
| (8) Fluoranthene | (16) *Acenaphthylene(*additional analyte) |

Part # 10007 1 mL

UST STATE METHODS

NORTHWEST REGION TPH METHODS

NWTPH-HCID is a screening method for the qualification of the presence of petroleum producers. Upon this determination, method NWTPH-Gx and/or method NWTPH-Dx may be employed for the quantification of gasoline and diesel, respectively.

NWTPH-HCID Retention Time Mix

2500 ug/mL in Methylene chloride

- (1) n-Dodecane
- (2) n-Tetracosane
- (3) Toluene

Part # 51137 1 mL

NWTPH-HCID Surrogate Mix

5000 ug/mL in Methylene chloride

- (1) 4-Bromofluorobenzene
- (2) n-Pentacosane

Part # 51138 1 mL

NWTPH-Gx Surrogate Mix

2500 ug/mL in Methylene chloride

- (1) 4-Bromofluorobenzene
- (2) 1,4-Difluorobenzene

Part # 51139 1 mL

| NWTPH-Dx Surrogates | Part # | ug/mL | Solvent |
|----------------------|--------|-------|-------------------|
| (1) 2-Fluorobiphenyl | 12009 | 4000 | MeCl ₂ |
| (2) o-Terphenyl | 91738 | 5000 | MeCl ₂ |
| (3) p-Terphenyl | 91296 | 4000 | MeCl ₂ |
| (4) n-Pentacosane | 70977 | 1000 | MeCl ₂ |

PENNSYLVANIA PVOC

UST
STATE
METHODS**Pennsylvania PVOC Method***2000 ug/mL in Methanol*

- (1) Benzene
- (2) Toluene
- (3) Ethyl benzene
- (4) o-Xylene
- (5) m-Xylene
- (6) p-Xylene
- (7) Methyl tert-butyl ether (MTBE)
- (8) Naphthalene
- (9) Isopropyl benzene
- (10) 1,2-Dibromoethane
- (11) 1,2-Dichloroethane

Part # 92061 1 mL

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UST STATE METHODS

TENNESSEE GRO

The TN GRO method measures the concentration of C6-C12 n-alkanes in water and soil. Analysis of such gasoline range organics is performed by purge and trap GC-FID or FID/PID for the measurement of BTEX.

Tennessee GRO Standard

Varied ug/mL in Methanol

| | | |
|------|------------------------|-------|
| (1) | Benzene | 5000 |
| (2) | Toluene | 15000 |
| (3) | Ethyl benzene | 5000 |
| (4) | o-Xylene | 10000 |
| (5) | m-Xylene | 10000 |
| (6) | p-Xylene | 10000 |
| (7) | 1,2,4-Trimethylbenzene | 10000 |
| (8) | 2-Methylpentane | 15000 |
| (9) | 2,2,4-Trimethylpentane | 15000 |
| (10) | n-Heptane | 5000 |

Part # 51179 1 mL

Gasoline Standard

20 mg/mL in Methanol

87 Octane Unleaded Gasoline

Part # 51010 1 mL

TN GRO

Surrogate Spike

20 mg/mL in Methanol

Isopropyltoluene

Part # 32341 1 mL

TENNESSEE EPH**UST
STATE
METHODS**

The TN EPH method measures the amount of Extractable Petroleum Hydrocarbons in water and soil. Analysis of n-alkanes C12-C40 in the mid to late range petroleum products is performed by GC-FID.

**Tennessee / Mississippi
Diesel Standard*****C10-C28**

**does not include C27*

2000 ug/mL in Hexane

- (1) Decane
- (2) Undecane
- (3) Dodecane
- (4) Tridecane
- (5) Tetradecane
- (6) Pentadecane
- (7) Hexadecane
- (8) Heptadecane
- (9) Octadecane
- (10) Nonadecane
- (11) Eicosane
- (12) Heneicosane
- (13) Docosane
- (14) Tricosane
- (15) Tetracosane
- (16) Pentacosane
- (17) Hexacosane
- (18) Octacosane

Part # 90138 1 mL

**TN EPH
Surrogate Spike**

2000 ug/mL in Methanol

o-Terphenyl

Part # 91125 1 mL

n-Hydrocarbon Mix

100 ug/mL in Methylene chloride

$C_8 - C_{40}$ n-Hydrocarbons (Even # Carbons)

Part # 91407 1 mL

**TN EPH
by GC/FID**

10 mg/mL in Methylene chloride

10W 30 Oil/ #2 Diesel Fuel [1:1]

Part # 51096 1 mL

**TN EPH
Laboratory Control Sample**

20 mg/mL in Methylene chloride

#2 Fuel Oil Diesel

Part # 51006 1 mL

**TN EPH
Internal Standard**

1000 ug/mL in Methanol

5-alpha-androstane

Part # 70372 1 mL

**UST
STATE
METHODS**

**TEXAS TNRCC
METHODS 1005 & 1006**

TX1005 Retention Marker Mix

500 ug/mL in n-Pentane

- (1) n-Hexane
- (2) n-Decane
- (3) n-Dodecane
- (4) n-Octacosane
- (5) n-Pentatriacontane

Part # 92934 1 mL

**TX1005
Surrogate Mix**

10 mg/mL in n-Pentane

- (1) 1-Chlorooctadecane
- (2) 1-Chlorooctane

Part # 51043 5 mL

**TX 1005
Surrogate Spike
C6-C12 Range**

1000 ug/mL in Acetone

1-Chlorooctadecane

Part # 71674 1 mL

**TX 1005
Surrogate Spike
>C12 Range**

1000 ug/mL in Methanol

o-Terphenyl

Part # 71225 1 mL

**TNRCC 1005 TPH as
Petroleum Hydrocarbons**

2000 ug/mL in Methylene chloride

C6-C28 inclusive

Part # 90814 1 mL

**TX1005/ 1006 TPH
Calibration Standard**

in n-Pentane

- (1) #2 Fuel Oil (Diesel)
- (2) Unleaded Gasoline 87 Octane

**Part # 93035 20 mg/mL
1 mL Part # 92804 10 mg/mL 1
mL**

**TX 1005
Surrogate Spike
C6-C12 Range**

1000 ug/mL in Methanol

a,a,a-Trifluorotoluene

Part # 70299 1 mL

**TX 1005
Surrogate Spike
>C12 Range**

1000 ug/mL in Methanol

2-Fluorobiphenyl

Part # 70187 1 mL

WASHINGTON VPH**UST
STATE
METHODS****WA VPH Standard***1000 ug/mL in Methanol*

- (1) Benzene
- (2) n-Decane
- (3) n-Dodecane
- (4) Ethylbenzene
- (5) n-Hexane
- (6) 1-Methylnaphthalene
- (7) Methyl tert-butyl ether (MTBE)
- (8) Naphthalene
- (9) n-Octane
- (10) n-Pentane
- (11) Toluene
- (12) 1,2,3-Trimethylbenzene
- (13) m-Xylene
- (14) o-Xylene
- (15) p-Xylene

Part # 51140 1 mL**WA VPH Marker Standard***1000 ug/mL in Methanol*

- (1) n-Decane
- (2) n-Dodecane
- (3) n-Hexane
- (4) 1-Methylnaphthalene
- (5) Naphthalene
- (6) n-Octane
- (7) n-Pentane
- (8) Toluene

Part # 51141 1 mL**WA VPH
SURROGATE STANDARD***5000 ug/mL in Methanol*

2,5-Dibromotoluene

Part # 91771 1 mL

**UST
STATE
METHODS**

WASHINGTON EPH

**WA EPH Aromatic
Hydrocarbons**

1000 ug/mL in Methylene Chloride

- (1) Acenaphthene
- (2) Benzo(g,h,i)perylene
- (3) Naphthalene
- (4) Pyrene
- (5) Toluene
- (6) 1,2,3-Trimethylbenzene

Part # 51142 1 mL

**WA EPH Aliphatic
Hydrocarbons**

1000 ug/mL in Hexane

- (1) n-Octane
- (2) n-Decane
- (3) n-Dodecane
- (4) n-Hexadecane
- (5) n-Heneicosane
- (6) n-Tetratriacontane

Part # 51143 1 mL

WA EPH Matrix Spike Mix

250 ug/mL in Acetone

- (1) n-Decane
- (2) n-Dodecane
- (3) n-Hexadecane
- (4) n-Heneicosane
- (5) Acenaphthene
- (6) Anthracene
- (7) Benzo(a)pyrene
- (8) Benzo(g,h,i)perylene
- (9) Naphthalene
- (10) Pyrene

Part # 51145 1 mL

**WA EPH Fractionation
Check Mix**

25 ug/mL in Hexane

- (1) n-Octane
- (2) n-Decane
- (3) n-Dodecane
- (4) n-Hexadecane
- (5) n-Heneicosane
- (6) n-Tetratriacontane
- (7) Acenaphthene
- (8) Acenaphthylene
- (9) Anthracene
- (10) Benzo(a)anthracene
- (11) Benzo(b)fluoranthene
- (12) Benzo(k)fluoranthene
- (13) Benzo(g,h,i)perylene
- (14) Chrysene
- (15) Dibenzo(a,h)anthracene
- (16) Fluoranthene
- (17) Fluorene
- (18) Indeno(1,2,3-cd)pyrene
- (19) Naphthalene
- (20) Phenanthrene
- (21) Pyrene
- (22) Benzo(a)pyrene

Part # 51144 1 mL

**WA EPH
Surrogate mix**

2000 ug/mL in Acetone

- (1) o-Terphenyl
- (2) 1-Chlorooctadecane

Part # 51075 1 mL

**Internal Standard
1,2,3-Trimethylbenzene**

1000 ug/mL in Methanol Part

70944 1 mL

WISCONSIN GRO & DRO

UST STATE METHODS

GRO ANALYTES

1000 ug/mL in Methanol

- (1) Benzene
- (2) Toluene
- (3) Ethyl benzene
- (4) o-Xylene
- (5) m-Xylene
- (6) p-Xylene
- (7) 1,2,4-Trimethylbenzene
- (8) 1,3,5-Trimethylbenzene
- (9) MTBE
- (10) Napthalene

Part # 90379 1 mL

DRO ANALYTES

in Hexane

- (1) Decane
- (2) Dodecane
- (3) Tetradecane
- (4) Hexadecane
- (5) Octadecane
- (6) Eicosane
- (7) Docosane
- (8) Tetracosane
- (9) Hexacosane
- (10) Octacosane

Part # 90322 @ 2000ug/mL 1 mL

Part # 91034 @ 10 mg/mL 1 mL

GASOLINE COMPONENTS

Varied Concentrations in Methanol

| <i>Component</i> | <i>(ug/mL)</i> |
|----------------------------|----------------|
| (1) Benzene | 500 |
| (2) Toluene | 1500 |
| (3) Ethyl benzene | 500 |
| (4) o-Xylene | 1000 |
| (5) m-Xylene | 1000 |
| (6) p-Xylene | 1000 |
| (7) 1,2,4-Trimethylbenzene | 1000 |
| (8) 2,2,4-Trimethylpentane | 1500 |
| (9) Heptane | 500 |
| (10) 2-Methylpentane | 1500 |

Part # 90221 1 mL

SURROGATE STANDARDS

| | | | | | |
|------|------------------------|-------|------|------|-------------------|
| DRO | o-Terphenyl | 71225 | \$22 | 1000 | Methanol |
| DRO | o-Terphenyl | 91125 | \$25 | 2000 | Methanol |
| DRO | p-Terphenyl | 71227 | \$22 | 1000 | MeCl ₂ |
| DRO | 5-alpha-androstane | 70372 | \$22 | 1000 | Methanol |
| | | | | | |
| GRO | 4-Bromofluorobenzene | 70048 | \$22 | 1000 | Methanol |
| GRO | 4-Bromofluorobenzene | 19267 | \$25 | 2000 | Methanol |
| *GRO | a,a,a-Trifluorotoluene | 70299 | \$22 | 1000 | Methanol |

* (Soil Matrix)

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CUSTOM STANDARD QUOTATION REQUEST FORM

Rev #: 1, Date Revised: 01/01/02 - Catalog.

Photocopy at 125 % For Future Use

Fax To:

Page _____ of _____ Date: _____/_____/_____

Company Contact: _____

Company Name: _____

Company Address: _____

Company Phone: _____

Company Fax/Email: _____

Product Description: _____

Solvent: _____

Analysis Required - additional charge - (circle one): yes no

Date Required: _____/_____/_____

Requested Quantity (circle one): ORGANIC 5 x 1 mL 10 x 1 mL Other x mL

INORGANIC 1 x 100 mL 1 x 500 mL Other x mL

| # | Component(s) | CAS # (optional) | Conc. (ug/mL) |
|------|--------------|------------------|---------------|
| (1) | _____ | _____ | _____ |
| (2) | _____ | _____ | _____ |
| (3) | _____ | _____ | _____ |
| (4) | _____ | _____ | _____ |
| (5) | _____ | _____ | _____ |
| (6) | _____ | _____ | _____ |
| (7) | _____ | _____ | _____ |
| (8) | _____ | _____ | _____ |
| (9) | _____ | _____ | _____ |
| (10) | _____ | _____ | _____ |