

## Underground Storage Tank Monitoring (UST): General

Category	Compound Class
Retention Time Standards	Hydrocarbons
Fuel Composite Standards	Hydrocarbons
Motor Oil Composite Standards	Hydrocarbons
Single Source Fuel Standards	Hydrocarbons
Military Fuels (Jet Propellant)	Hydrocarbons
Fuel Oil Degradation Test	Hydrocarbons
Mineral Spirits	Hydrocarbons
PVOC, GRO and BTEX	Hydrocarbons
Gasoline Surrogate and Internal Standards	Volatiles
Diesel Surrogate and Internal Standards	Hydrocarbons
Diesel/Biodiesel Blend	Hydrocarbons

### Retention Time Standards

Used during initial sample screening, to determine retention time windows for each petroleum product. Gasoline generally elutes in the window from C6 to C10 (or C12), and diesel fuel from C10 (or C12) to C24 (or C28). Retention above C24 (or C28) indicates oil or lubricant contamination.

### Leaking Underground Storage Tank Retention Time Standard

(7 components)

<i>n</i> -hexane (C6)	<i>n</i> -octacosane (C28)
<i>n</i> -decane (C10)	<i>n</i> -triacontane (C30)
<i>n</i> -dodecane (C12)	<i>n</i> -tetracontane (C40)
<i>n</i> -tetracosane (C24)	

25µg/mL each in methylene chloride, 1mL/ampul  
cat. # 31200 (ea.)

### Retention Time Marker Standard (3 components)

<i>n</i> -decane (C10)	<i>n</i> -hexatriacontane (C36)
<i>n</i> -pentacosane (C25)	

1,000µg/mL each in hexane, 1mL/ampul  
cat. # 31637 (ea.)

### Retention Time Marker (3 components)

<i>n</i> -hexane (C6)	<i>n</i> -dodecane (C12)
<i>n</i> -decane (C10)	

1,000µg/mL each in P&T methanol, 1mL/ampul  
cat. # 30483 (ea.)

### TNRC 1005 Retention Time Markers Mix (4 components)

<i>n</i> -hexane (C6)	<i>n</i> -octacosane (C28)
<i>n</i> -dodecane (C12)	<i>n</i> -pentatriacontane (C35)

200µg/mL each in pentane, 1mL/ampul  
cat. # 31698 (ea.)

### Retention Time Marker - Alaska (4 components)

<i>n</i> -hexane (C6)	<i>n</i> -pentacosane (C25)
<i>n</i> -decane (C10)	<i>n</i> -hexatriacontane (C36)

1,000µg/mL in methylene chloride, 1mL/ampul  
cat. # 31819 (ea.)

## Fuel Composite Standards

### Unleaded Gasoline Composite Standard

2,500µg/mL in P&T methanol, 1mL/ampul  
cat. # 30081 (ea.)

50,000µg/mL in P&T methanol, 1mL/ampul  
cat. # 30205 (ea.)

50,000µg/mL in P&T methanol, 5mL/ampul  
cat. # 30206 (ea.)

### Diesel Fuel #2 Composite Standard

5,000µg/mL in methylene chloride, 1mL/ampul  
cat. # 31093 (ea.)

50,000µg/mL in methylene chloride, 1mL/ampul  
cat. # 31258 (ea.)

50,000µg/mL in methylene chloride, 5mL/ampul  
cat. # 31259 (ea.)

### Kerosene Composite Standard

5,000µg/mL in methylene chloride, 1mL/ampul  
cat. # 31094 (ea.)

50,000µg/mL in methylene chloride, 1mL/ampul  
cat. # 31256 (ea.)

50,000µg/mL in methylene chloride, 5mL/ampul  
cat. # 31257 (ea.)

## Motor Oil Composite Standards

### Motor Oil Composite Standard

Prepared from an equal volume blend of 5W30, 10W30, 10W40, and 20W50 motor oils. After blending, a precisely weighed amount of the composite is added to a volumetric flask to produce the standard.

50,000µg/mL in methylene chloride, 1mL/ampul  
cat. # 31464 (ea.)

### Used Motor Oil Composite Standard

Prepared from an equal volume blend from five gasoline powered vehicles (belonging to Restek employees). After blending, a precisely weighed amount of the composite is added to a volumetric flask to produce the standard.

50,000µg/mL in methylene chloride, 1mL/ampul  
cat. # 31465 (ea.)

## also available

Other fuels, oils and lubricant oils available on request as custom products.