

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)

n-hexane (C6) *n*-octacosane (C28)
n-decane (C10) *n*-triacontane (C30)
n-dodecane (C12) *n*-tetracontane (C40)
n-tetracosane (C24)

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

Retention Time Marker Standard

n-decane (C10) *n*-hexatriacontane (C36)
n-pentacosane (C25)

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

Retention Time Marker

n-hexane (C6) *n*-dodecane (C12)
n-decane (C10)

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

TNRCC 1005 Retention Time Markers Mix

n-hexane (C6) *n*-octacosane (C28)
n-dodecane (C12) *n*-pentatriacontane (C35)

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

Retention Time Marker - Alaska

n-hexane (C6) *n*-pentacosane (C25)
n-decane (C10) *n*-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.)

free literature

EPA Office of Underground Storage Tanks (OUST) Recommended Methods

Download your free copy from www.restek.com

Fast Facts
lit. cat. # 59397

See **pages 491-497** for information on UST technical literature for individual states.

also available

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