free literature

EPA Office of Underground

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See pages 491-497 for

information on UST technical

literature for individual states.

Fast Facts

Recommended Methods

Fuel Oil Degradation Test

Subsurface degradation of fuel oil spills can be estimated by examining the ratios of C17/pristane and C18/phytane.1 To assist in identifying these four compounds from the complex fuel oil analysis, we offer a product that contains these compounds for retention time determination.

Fuel Oil Degradation Mix

heptadecane (C17) octadecane (C18) pristane (2,6,10,14-tetramethylpentadecane) phytane (2,6,10,14-tetramethylhexadecane)

 $2,000\mu g/mL$ each in methylene chloride, 1mL/ampulcat. # 31240 (ea.)

¹Interpretation of Gas Chromatographic Data in Subsurface Hydrocarbon Investigations, R. Senn and M. Johnson, Ground Water Monitoring Review, Winter 1987.

Mineral Spirits

There are four general types of mineral spirits, classified according to boiling point range (BPR):

• Type I (Stoddard solvent) BPR 149–182°C • Type II (high flash point) BPR 177–196°C • Type III (odorless) BPR 149-196°C • Type IV (low dry point) BPR 149-174°C

We prepare our solutions from an equal volume blend of Type I, II, and III mineral spirits.

Mineral Spirits Standards

 $5,000\mu g/mL$ in methylene chloride, 1mL/ampulcat. # 31225 (ea.) 50,000µg/mL in methylene chloride, 1mL/ampul cat. # 31260 (ea.) 50,000µg/mL in methylene chloride, 5mL/ampul cat. # 31261 (ea.)

Stoddard Solvent Standard

Stoddard solvent is also known as Type I mineral spirits, Texsolve S®, or Varsol 1® mineral spirits. We offer this reference material for those who need to calibrate Stoddard solvent separately. This standard is dissolved in methanol for analysis by either direct injection or purge and trap.

10,000µg/mL in P&T methanol, 1mL/ampul cat. # 30487 (ea.)

Petroleum Volatile Organic Compounds (PVOC), Gasoline Range Organics (GRO), & Benzene-Toluene-**Ethylbenzene-Xylenes (BTEX)**

PVOC Mix (California) (7 components)

benzene m-xylene ethylbenzene o-xylene methyl tert-butyl ether (MTBE) p-xylene toluene

1,000µg/mL each in P&T methanol, 1mL/ampul cat. # 30231 (ea.)

PVOC/GRO Mix (Wisconsin) (10 components)

1,2,4-trimethylbenzene benzene ethylbenzene 1,3,5-trimethylbenzene methyl tert-butyl ether (MTBE) m-xylene naphthalene o-xylene toluene p-xylene $1,000\mu$ g/mL each in P&T methanol, 1mL/ampul

cat. # 30095 (ea.)

GRO Mix (9 components)

benzene 1,2,4-trimethylbenzene ethylbenzene 2,2,4-trimethylpentane 3-methylpentane (isooctane) naphthalene *m*-xylene toluene o-xylene $1,000\mu \mathrm{g/mL}$ each in P&T methanol, $1\mathrm{mL/ampul}$ cat. # 30069 (ea.)

GRO Mix (EPA) (9 components)

benzene $500\mu g/mL$ 1,2,4-trimethylbenzene 1,000 ethylbenzene 500 2,2,4-trimethylpentane 1,500 500 1,000 heptane *m*-xvlene 2-methylpentane 1,500 o-xylene 1,000 toluene 1.500

In P&T methanol, 1mL/ampul

cat. # 30065 (ea.)

BTEX Standard

benzene

ethylbenzene o-xylene toluene p-xvlene 200µg/mL each in P&T methanol, 1mL/ampul cat. # 30051 (ea.) 2,000µg/mL each in P&T methanol, 1mL/ampul cat. # 30213 (ea.) 2,000µg/mL each in P&T methanol, (m-xylene and p-xylene at $1,000\mu g/mL)$, 1mL/ampul

cat. # 30488 (ea.)

m-xylene

BTEX Gas Mix

Cylinder Construction: aluminum CGA-180 outlet Cylinder Fitting:

benzene *m*-xylene ethylbenzene o-xylene toluene p-xvlene In nitrogen, 104 liters @ 1,800psi

100ppb cat. # 34428 (ea.) In nitrogen, 110 liters @ 1,800psi (Pi-marked Cylinder) **lppm** cat. # 34414-PI (ea.) 100ppb cat. # 34428-PI (ea.)

1ppm cat. # 34414 (ea.)

Requires a high-purity VOC single-stage regulator. See page 415. No data pack available.

Chromatogra Products Australian Distributors

