

# Analytical Reference Materials

## Semivolatile Internal Standards & Surrogates; Organochlorine Pesticides; Oxygenates

by Ken Herwehe, Analytical Reference Materials Product Marketing Manager

### Semivolatile Internal Standards & Surrogates

#### Revised SV Internal Standard Mix (7 components)

acenaphthene-d10	naphthalene-d8
chrysene-d12	perylene-d12
1,4-dichlorobenzene-d4	phenanthrene-d10
1,4-dioxane-d8	
2,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 31885 (ea.)	
4,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 31886 (ea.)	

#### Revised B/N Surrogate Mix

2-fluorobiphenyl	<i>p</i> -terphenyl-d14
nitrobenzene-d5	pyrene-d10
1,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 31887 (ea.)	
5,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 31888 (ea.)	
5,000µg/mL each in methylene chloride, 5mL/ampul	
cat. # 31889 (ea.)	

#### SV Internal Standard Mix

acenaphthene-d10	naphthalene-d8
chrysene-d12	perylene-d12
1,4-dichlorobenzene-d4	phenanthrene-d10
2,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 31206 (ea.)	
4,000µg/mL each in methylene chloride, 1mL/ampul*	
cat. # 31006 (ea.)	

\*Warm and sonicate before using.

#### B/N Surrogate Mix (4/89 SOW)

2-fluorobiphenyl	<i>p</i> -terphenyl-d14
nitrobenzene-d5	
1,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 31024 (ea.)	
5,000µg/mL each in methylene chloride, 1mL/ampul*	
cat. # 31062 (ea.)	
5,000µg/mL each in methylene chloride, 5mL/ampul*	
cat. # 31086 (ea.)	

\*Warm and sonicate before using.

#### Acid Surrogate Standard Mix (3/90 SOW)

2-chlorophenol-d4	phenol-d6
2-fluorophenol	2,4,6-tribromophenol
1,500µg/mL each in methanol, 1mL/ampul	
cat. # 31003 (ea.)	
7,500µg/mL each in methanol, 1mL/ampul	
cat. # 31073 (ea.)	
7,500µg/mL each in methanol, 5mL/ampul	
cat. # 31083 (ea.)	

#### Acid Surrogate Mix (4/89 SOW)

2-fluorophenol	2,4,6-tribromophenol
phenol-d6	
2,000µg/mL each in methanol, 1mL/ampul	
cat. # 31025 (ea.)	
10,000µg/mL each in methanol, 1mL/ampul	
cat. # 31063 (ea.)	
10,000µg/mL each in methanol, 5mL/ampul	
cat. # 31087 (ea.)	

#### B/N Surrogate Standard Mix (3/90 SOW)

1,2-dichlorobenzene-d4	nitrobenzene-d5
2-fluorobiphenyl	<i>p</i> -terphenyl-d14
1,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 31002 (ea.)	
5,000µg/mL each in methylene chloride, 1mL/ampul*	
cat. # 31072 (ea.)	
5,000µg/mL each in methylene chloride, 5mL/ampul*	
cat. # 31082 (ea.)	

\*Warm and sonicate before using.

#### OLC 03.2 SVOA Deuterated Monitoring

##### Compounds (DMC) (16 components)

acenaphthylene-d8	4,6-dinitro-methylphenol-d2
anthracene-d10	fluorene-d10
benzo(a)pyrene-d12	4-methylphenol-d8
4-chloroaniline-d4	nitrobenzene-d5
bis-(2-chloroethyl)ether-d8	2-nitrophenol-d4
2-chlorophenol-d4	4-nitrophenol-d4
2,4-dichlorophenol-d3	phenol-d5
dimethylphthalate-d6	pyrene-d10
2,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 31810 (ea.)	

No data pack available.

### Organochlorine Pesticides

See 12-minute analysis on page 6.

#### Organochlorine Pesticide Mix AB #2

(20 components)

aldrin	8µg/mL	dieldrin	16
α-BHC	8	endosulfan I	8
β-BHC	8	endosulfan II	16
δ-BHC	8	endosulfan sulfate	16
γ-BHC (lindane)	8	endrin	16
α-chlordane	8	endrin aldehyde	16
γ-chlordane	8	endrin ketone	16
4,4'-DDD	16	heptachlor	8
4,4'-DDE	16	heptachlor epoxide (B)	8
4,4'-DDT	16	methoxychlor	80

In hexane:toluene (1:1), 1mL/ampul  
cat. # 32292 (ea.)

#### Pesticide Surrogate Mix

decachlorobiphenyl	2,4,5,6-tetrachloro- <i>m</i> -xylene
200µg/mL each in acetone, 1mL/ampul	
cat. # 32000 (ea.)	

### Oxygenates

See sub-ppb analysis on page 4.

#### Methyl *tert*-butyl ether (MTBE)

2,000µg/mL in P&T methanol, 1mL/ampul  
cat. # 30402 (ea.)

#### *tert*-Butanol-d9 Standard

20,000µg/mL in P&T methanol, 1mL/ampul  
cat. # 30618 (ea.)



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