

# Analytical Reference Materials

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**Take these eight steps to create the right solution:**

1. Mixture Description: \_\_\_\_\_

2. Solvent: \_\_\_\_\_

3. Number of Components: \_\_\_\_\_

4. Volume per ampul (select): 1mL, 2mL, 5mL, 10mL or other \_\_\_\_\_mL

5. Quantity of ampuls: \_\_\_\_\_ (no minimum order)

6. Testing and documentation that best meet your requirements:

- Gravimetric Documentation: Gravimetric Certificate.
- Qualitative Documentation: Certificate of Composition and Chromatogram.
- Quantitative Documentation: Certificate of Analysis and Data Pack.

7. Compound(s) (list or attach sheet)	CAS Number	Concentration
Compound 01: _____	_____	_____
Compound 02: _____	_____	_____
Compound 03: _____	_____	_____
Compound 04: _____	_____	_____
Compound 05: _____	_____	_____
Compound 06: _____	_____	_____
Compound 07: _____	_____	_____
Compound 08: _____	_____	_____
Compound 09: _____	_____	_____
Compound 10: _____	_____	_____
Compound 11: _____	_____	_____
Compound 12: _____	_____	_____
Compound 13: _____	_____	_____
Compound 14: _____	_____	_____
Compound 15: _____	_____	_____
Compound 16: _____	_____	_____
Compound 17: _____	_____	_____
Compound 18: _____	_____	_____
Compound 19: _____	_____	_____
Compound 20: _____	_____	_____

8. Concentration Units

- mg/mL
- µg/mL
- ng/mL
- vol./wt. %
- wt./wt. %
- other \_\_\_\_\_

**Contact Information:**

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Company/Location: \_\_\_\_\_

Phone #: \_\_\_\_\_ FAX #: \_\_\_\_\_

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ALL mixtures are produced in accordance with our ISO 9001:2000 registration.  
Analytical balances are calibrated daily at seven mass levels using NIST traceable weights.  
ALL raw materials used are a minimum of 97% pure unless otherwise specified.

## Neat & Single Compounds

Solvent	Code
acetonitrile	.ACN
carbon disulfide	.C
methylene chloride	.D
ethyl acetate	.EA
hexane	.H
methanol	.M
methyl <i>tert</i> -butyl ether	.MTBE
purge & trap grade methanol	.PTM

Compound	Packaged 1mL/ampul*	CAS#	Solvent Code	Individual $\mu\text{g/mL}^*$	cat.#
ammonium picrate		131-74-8	ACN	2,000	31890
<i>tert</i> -amyl ethyl ether (TAE)		919-94-8	PTM	2,000	30617
benzoic acid		65-85-0	D	2,000	31879
diesel/biodiesel 80:20		67784-80-9	D	5,000	31880
2-bromobutanoic acid		80-58-0	MTBE	2,000	31881
2-bromobutyrate		3196-15-4	MTBE	2,000	31882
<i>tert</i> -butanol-d9		25725-11-5	PTM	20,000	30618
1-chloro-3-nitrobenzene		121-73-3	H	1,000	31875
3,3'-dichloro-benzidine-free base		91-94-1	Neat	100mg	31884
3,4-dinitrotoluene		610-39-9	EA	2,000	33901
nitrobenzene-d5		4165-60-0	D	2,000	33904
2-nitromesitylene		603-71-4	M	2,000	33902
N-nitrosodimethylamine-d6		17829-05-9	D	1,000	33910
N-nitrosodi- <i>n</i> -propylamine-d14		93951-96-3	D	1,000	33911
nonatriacontane (C39) (10mL/ampul)		7194-86-7	C	3,000	31877
$\alpha$ -terpineol		98-55-5	D	2,000	33912
1,2,4-trimethyl-5-nitrobenzene		610-91-3	M	2,000	33903

\*Volume is 1mL/ampul unless otherwise noted. Concentration is  $\mu\text{g/mL}$  unless otherwise noted.

## 500 Series Methods - US EPA Safe Drinking Water Act (SDWA)

US EPA Method No.	Compound Class
521	Nitrosamines <b>NEW</b>
525, 525.1, 525.2	Semivolatile Organics <b>NEW</b>
529	Nitroaromatics & Nitramines <b>NEW</b>
552, 552.1, 552.2	Haloacetic Acids <b>NEW</b>

## Method 521 (Nitrosamines)

### Nitrosamine Calibration Mix, Method 521

(7 components)

N-nitrosodiethylamine	N-nitrosomethylethylamine
N-nitrosodimethylamine	N-nitrosopiperidine
N-nitrosodi- <i>n</i> -butylamine	N-nitrosopyrrolidine
N-nitrosodi- <i>n</i> -propylamine	

1,000 $\mu\text{g/mL}$  each in methylene chloride, 1mL/ampul  
cat. # 31898 (ea.)

### N-Nitrosodimethylamine-d6

1,000 $\mu\text{g/mL}$  in methylene chloride, 1mL/ampul  
cat. # 33910 (ea.)

### N-Nitrosodi-*n*-propylamine-d14

1,000 $\mu\text{g/mL}$  in methylene chloride, 1mL/ampul  
cat. # 33911 (ea.)

## Method 525.2 (Semivolatile Organics)

### Method 525.2 Semivolatile Mix (revised)

(28 components)

acenaphthylene	di- <i>n</i> -butylphthalate
anthracene	di- <i>n</i> -octylphthalate
benzo(a)anthracene	2,4-dinitrotoluene
benzo(a)pyrene	2,6-dinitrotoluene
benzo(b)fluoranthene	fluoranthene
benzo(ghi)perylene	fluorene
benzo(k)fluoranthene	hexachlorobenzene
benzylbutylphthalate	hexachlorocyclopentadiene
bis(2-ethylhexyl)adipate	indeno(1,2,3-cd)pyrene
bis(2-ethylhexyl)phthalate	isophorone
chrysene	naphthalene
dibenzo(a,h)anthracene	pentachlorophenol*
diethylphthalate	phenanthrene
dimethylphthalate	pyrene

1,000 $\mu\text{g/mL}$  each in acetone, (\*pentachlorophenol at 4,000 $\mu\text{g/mL}$ ), 1mL/ampul

cat. # 31899 (ea.)

## Method 529 (Nitroaromatics & Nitramines)

### Nitroaromatics and Nitramine Explosives in

#### Drinking Water (14 components)

3,5-dinitroaniline	2-nitrotoluene
1,3-dinitrobenzene	3-nitrotoluene
2-amino-4,6-dinitrotoluene	4-nitrotoluene
4-amino-2,6-dinitrotoluene	RDX
2,4-dinitrotoluene	tetryl
2,6-dinitrotoluene	1,3,5-trinitrobenzene
nitrobenzene	2,4,6-trinitrobenzene

1,000 $\mu\text{g/mL}$  each in acetonitrile, 1mL/ampul

cat. # 33900 (ea.)

### 3,4-Dinitrotoluene

2,000 $\mu\text{g/mL}$  in ethyl acetate, 1mL/ampul

cat. # 33901 (ea.)

### 2-Nitromesitylene

2,000 $\mu\text{g/mL}$  in methanol, 1mL/ampul

cat. # 33902 (ea.)

### 1,2,4-Trimethyl-5-nitrobenzene

2,000 $\mu\text{g/mL}$  in methanol, 1mL/ampul

cat. # 33903 (ea.)

### Nitrobenzene-d5

2,000 $\mu\text{g/mL}$  in methylene chloride, 1mL/ampul

cat. # 33904 (ea.)

## Method 552, 552.1, 552.2, 552.3 (Haloacetic Acids)

### Haloacetic Acid Mix (9 components)

bromochloroacetic acid	monobromoacetic acid
bromodichloroacetic acid	monochloroacetic acid
chlorodibromoacetic acid	tribromoacetic acid
dibromoacetic acid	trichloroacetic acid
dichloroacetic acid	

1,000 $\mu\text{g/mL}$  each in methyl *tert*-butyl ether, 1mL/ampul

cat. # 31896 (ea.)



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Pesticides Mix #2,  
cat. # 33008

Surrogate Standard,  
cat. # 33009

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cat. # 33010

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### Haloacetic Acid Methyl Ester Mix (9 components)

methyl bromochloroacetate methyl monobromoacetate  
methyl bromodichloroacetate methyl monochloroacetate  
methyl chlorodibromoacetate methyl tribromoacetate  
methyl dibromoacetate methyl trichloroacetate  
methyl dichloroacetate  
1,000µg/mL each in methyl *tert*-butyl ether, 1mL/ampul  
cat. # 31897 (ea.)

### 2-Bromobutanoic Acid

2,000µg/mL in methyl *tert*-butyl ether, 1mL/ampul  
cat. # 31881 (ea.)

### 2-Bromobutyrate

2,000µg/mL in methyl *tert*-butyl ether, 1mL/ampul  
cat. # 31882 (ea.)

## 8000 Series Methods - Resource Conservation and Recovery Act (RCRA)

US EPA Method No.	Compound Class
8091	1-Chloro-3-Nitrobenzene <b>NEW</b>
8095	Explosives by GC <b>NEW</b>
8260, 8260A, 8260B	Volatile Organic Compounds (VOC) <b>NEW</b>
8270D, 8270C	Reformulated Semivolatile Organic Compounds <b>NEW</b>
8330	Nitroaromatics and Nitramines by HPLC <b>NEW</b>

### Method 8091 (1-Chloro-3-Nitrobenzene)

#### Hexachlorobenzene

1,000µg/mL in acetone, 1mL/ampul  
cat. # 32231 (ea.)

#### 1-Chloro-3-nitrobenzene

1,000µg/mL in hexane, 1mL/ampul  
cat. # 31875 (ea.)

### Method 8095 (Explosives by GC)

#### Ammonium Picrate

2,000µg/mL in acetonitrile, 1mL/ampul  
cat. # 31890 (ea.)

### Method 8260, 8260A, 8260B (Volatile Organic Compounds [VOC])

#### Oxygenates Standard

diisopropyl ether (DIPE) 2,000µg/mL  
ethyl-*tert*-butyl ether (ETBE) 2,000  
*tert*-amyl ethyl ether (TAEE) 2,000  
*tert*-amyl methyl ether (TAME) 2,000  
*tert*-butyl alcohol (TBA) 10,000  
In P&T methanol, 1mL/ampul  
cat. # 30619 (ea.)

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

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

#### *tert*-Amyl ethyl ether Standard (TAEE)

2,000µg/mL in P&T methanol, 1mL/ampul  
cat. # 30617 (ea.)

### Method 8270D, 8270C (Semivolatile Organic Compounds)

#### 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 *p*-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.)

#### Benzoic Acid

2,000µg/mL in methylene chloride, 1mL/ampul  
cat. # 31879 (ea.)

### Method 8330 (Nitroaromatics and Nitramines by HPLC)

#### Nitroaromatics and Nitramine Explosives by HPLC (14 components)

1,3-dinitrobenzene 2-nitrotoluene  
2-amino-4,6-dinitrotoluene 3-nitrotoluene  
4-amino-2,6-dinitrotoluene 4-nitrotoluene  
2,4-dinitrotoluene RDX  
2,6-dinitrotoluene tetryl  
HMX 1,3,5-trinitrobenzene  
nitrobenzene 2,4,6-trinitrotoluene  
1,000µg/mL each in acetonitrile, 1mL/ampul  
cat. # 33905 (ea.)

#### Ammonium Picrate

2,000µg/mL in acetonitrile, 1mL/ampul  
cat. # 31890 (ea.)

## EPA Superfund Contract Lab Program (CLP)

US EPA Method No.	Compound Class
SOM01.0	Semivolatiles <b>NEW</b>
4.2 and 04.1 SOW	Semivolatiles <b>NEW</b>
SOM01.0	Pesticides <b>NEW</b>
SOM01.0	Aroclors <b>NEW</b>

### SOM01.1 (Volatiles)

#### OLC 03.2 VOA MegaMix™ (42 components)

benzene	trans-1,3-dichloropropene
bromochloromethane	ethylbenzene
bromodichloromethane	isopropylbenzene (cumene)
bromoform	methyl acetate
carbon disulfide	methylcyclohexane
carbon tetrachloride	methyl tert-butyl ether (MTBE)
chlorobenzene	methylene chloride
chloroform	(dichloromethane)
cyclohexane	styrene
dibromochloromethane	1,1,2,2-tetrachloroethane
(chlorodibromomethane)	tetrachloroethylene
1,2-dibromo-3-chloropropane	toluene
1,2-dibromoethane (EDB)	1,2,3-trichlorobenzene
1,2-dichlorobenzene	1,2,4-trichlorobenzene
1,3-dichlorobenzene	1,1,1-trichloroethane
1,4-dichlorobenzene	1,1,2-trichloroethane
1,1-dichloroethane	trichloroethylene
1,2-dichloroethane	1,1,2-trichlorotrifluoroethane
1,1-dichloroethylene	(Freon® 113)
cis-1,2-dichloroethylene	m-xylene*
trans-1,2-dichloroethylene	o-xylene
1,2-dichloropropane	p-xylene*
cis-1,3-dichloropropene	
2,000µg/mL each (*m- & p-xylene at 1,000µg/mL) in P&T methanol, 1mL/ampul	
cat. # 30492 (ea.)	

#### OLC 03.2 VOA Deuterated Monitoring Compounds (DMC) (14 components)

<b>Ampul 1:</b>	1,2-dichloroethane-d4
<b>Non-Ketones:</b>	1,1-dichloroethene-d2
benzene-d6	1,2-dichloropropane-d6
bromoform-d	1,3-dichloropropene-d4*
chloroethane-d5	1,1,2,2-tetrachloroethane-d2
chloroform-d	toluene-d8
1,2-dichlorobenzene-d4	vinyl chloride-d3
<b>Ampul 2:</b>	2-butanone-d5
<b>Ketones:</b>	2-hexanone-d5
200µg/mL each in deuterated methanol (MeOD), 0.5mL/ampul	
100µg/mL each in deuterated methanol (MeOD), 1mL/ampul	
cat. # 30493 (ea.)	

\*Mix of *cis* and *trans* isomers. Exact proportions will be reported on the data sheet.

No data pack available.

Quantity discounts not available.

#### 1,4-Dioxane

2,000µg/mL in P&T methanol, 1mL/ampul  
cat. # 30287 (ea.)

## SOM01.1 (Pesticides)

### Organochlorine Pesticide Resolution Check Mix

(22 components)

aldrin	10µg/mL	endosulfan I	10
α-BHC	10	endosulfan II	20
β-BHC	10	endosulfan sulfate	20
δ-BHC	10	endrin	20
γ-BHC (lindane)	10	endrin aldehyde	20
α-chlordane	10	endrin ketone	20
γ-chlordane	10	heptachlor	10
decachlorobiphenyl	20	heptachlor epoxide	
dieldrin	20	(isomer B)	10
4,4'-DDD	20	methoxychlor	100
4,4'-DDE	20	2,4,5,6-tetrachloro-	
4,4'-DDT	20	m-xylene	10

In hexane:toluene, 1mL/ampul

cat. # 32454 (ea.)

### Pesticide Surrogate Mix

decachlorobiphenyl	200µg/mL
2,4,5,6-tetrachloro- <i>m</i> -xylene	100

In P&T methanol, 1mL/ampul

cat. # 32453 (ea.)

## SOM01.1 (Aroclor®)

### Aroclor® 1016/1260

Aroclor® 1016	Aroclor® 1260
400µg/mL each in acetone, 1mL/ampul	
cat. # 32456 (ea.)	

## SOM01.1 (Semivolatiles)

### SOM01.1 Deuterated Monitoring Compound

Mix w/ SIM Compounds (18 components)

acenaphthylene-d8	fluoranthene-d10
anthracene-d10	fluorene-d10
benzo(a)pyrene-d12	2-methylnaphthalene-d10
bis(2-chloroethyl)ether-d8	4-methylphenol-d8
4-chloroaniline-d4	nitrobenzene-d5
2-chlorophenol-d4	2-nitrophenol-d4
2,4-dichlorophenol-d3	4-nitrophenol-d4
dimethylphthalate-d6	phenol-d5
4,6-dinitro-2-methylphenol-d	pyrene-d10
2,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 33918 (ea.)	

### SOM01.1 Deuterated Monitoring Compound Mix SIM Compounds

fluoranthene-d10	2-methylnaphthalene-d10
2,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 33913 (ea.)	

### SOM01.1 SVOA B/N Matrix Spike Mix

acenaphthene	N-nitroso-di- <i>n</i> -propylamine
2,4-dinitrotoluene	pyrene
5,000µg/mL each in methanol, 1mL/ampul	
cat. # 33916 (ea.)	
5,000µg/mL each in methanol, 5mL/ampul	
cat. # 33917 (ea.)	

now available

OLC 3.2 VOA Non-Ketone Deuterated Monitoring Compounds, cat. # 30624

OLC 3.2 VOA Ketone Deuterated Monitoring Compounds, cat. # 30625

OLC 3.2 VOA DMC Kit, cat. # 30630

For more information, visit our website at [www.restek.com](http://www.restek.com)

also available

### SOM01.1 Semivolatiles MegaMix™

SOM01.1 SVOA MegaMix™, cat. # 33005

For more information, visit our website at [www.restek.com/som01](http://www.restek.com/som01)

## 04.2 and 04.1 (Semivolatiles)

### 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.)

## Aroclor® Solutions

### Aroclor® 1016/1260

Aroclor® 1016	Aroclor® 1260
400µg/mL each in acetone, 1mL/ampul	
cat. # 32456 (ea.)	

## Underground Storage Tank Monitoring (UST): General

Category	Compound Class
Oxygenates	...Oxygenated Hydrocarbons <b>NEW</b>
Single Source Fuel Standards	...Diesel/Biodiesel <b>NEW</b>

## Oxygenates

### Oxygenates

<i>tert</i> -amyl ethyl ether (TAEE)	2,000µg/mL
<i>tert</i> -amyl methyl ether (TAME)	2,000
<i>tert</i> -butyl alcohol (TBA)	10,000
diisopropyl ether (DIPE)	2,000
ethyl- <i>tert</i> -butyl ether (ETBE)	2,000
methyl <i>tert</i> -butyl ether (MTBE)	2,000

In P&T methanol, 1mL/ampul  
cat. # 30626 (ea.)

### Oxygenate Singles

2,000µg/mL in P&T methanol, 1mL/ampul

Compound	CAS#	Individual cat.#
diisopropyl ether (DIPE)	108-20-3	30627
ethyl- <i>tert</i> -butyl ether (ETBE)	637-92-3	30628
<i>tert</i> -amyl ethyl ether (TAEE)	919-94-8	30617
<i>tert</i> -amyl methyl ether (TAME)	994-05-8	30629

## Single Source Fuels

### Diesel/Biodiesel 80:20 Blend Standard

The biodiesel component is methyl soyate.

5,000µg/mL in methylene chloride, 1mL/ampul  
cat. # 31880 (ea.)

## Underground Storage Tank Monitoring (UST): State Specific Methods

State	Compound Class
Florida	...Hydrocarbons <b>NEW</b>

## Florida

### Florida TRPH Standard (17 components)

<i>n</i> -octane (C8)	<i>n</i> -hexacosane (C26)
<i>n</i> -decane (C10)	<i>n</i> -octacosane (C28)
<i>n</i> -dodecane (C12)	<i>n</i> -triacontane (C30)
<i>n</i> -tetradecane (C14)	<i>n</i> -dotriacontane (C32)
<i>n</i> -hexadecane (C16)	<i>n</i> -tetraatriacontane (C34)
<i>n</i> -octadecane (C18)	<i>n</i> -hexatriacontane (C36)
<i>n</i> -eicosane (C20)	<i>n</i> -octatriacontane (C38)
<i>n</i> -docosane (C22)	<i>n</i> -tetracontane (C40)
<i>n</i> -tetracosane (C24)	

2,000µg/mL each in carbon disulfide, 1mL/ampul\*  
cat. # 31878 (ea.)

\*Ground transportation shipments only.

### Florida TRPH Surrogate Mix

*n*-nonatriacontane (C39)  
3,000µg/mL in carbon disulfide, 10mL/ampul\*  
cat. # 31877 (ea.)

\*Ground transportation shipments only.

## Other Materials

Index	Compound Class
Air Monitoring Mixtures	...isocyanates <b>NEW</b>
Air Monitoring Mixtures	...oxazoladines <b>NEW</b>
Exempted Drug of Abuse Reference Materials	<b>NEW</b>
USP OVI Solvents	<b>NEW</b>
European Pharmacopoeia/ICH Solvents	<b>NEW</b>
GC Column Test Mixes	<b>NEW</b>
Dimethyldichlorosilane Deactivating Agent	<b>NEW</b>

## Air Monitoring (Isocyanates)

### Isocyanates Singles

1,000µg/mL in dimethyl sulfoxide, 1mL/ampul

Compound	CAS#	Individual cat.#
2,6-TDIP	195625-39-9	33000
2,4-TDIP	72375-21-4	33001
1,6-HDIP	72375-27-0	33002
4,4'-MDIP	72375-24-7	33003

## Air Monitoring (Oxazoladines)

### Formaldehyde Oxazoladine

2,000µg/mL in toluene, 1mL/ampul  
cat. # 33004 (ea.)

## Exempted Drug of Abuse Reference

### Materials

1,000µg/mL in P&T methanol (\*except where noted), 1mL/ampul

Compound	Individual cat.#
<b>Benzodiazepines</b>	
alprazolam	34042
bromazepam	34043
chlordiazepoxide	34044
clobazam	34045
clonazepam	34046
diazepam	34047
flunitrazepam	34049
flurazepam	34050
lorazepam	34051
nitrazepam	34053
oxazepam	34054
prazepam	34055
temazepam	34056
triazolam	34057
<b>Cocaine &amp; Metabolites</b>	
cocaine	34015
benzoylcegonine	34016
ecgonine	34017
ecgonine methyl ester	34018
<b>Methadone &amp; Metabolites</b>	
methadone	34005
<b>Amphetamines &amp; Metabolites</b>	
d-amphetamine	34020
(+)-methamphetamine	34021
<b>Opiates &amp; Metabolites</b>	
codeine	34000
hydrocodone	34002
hydromorphone	34063
morphine	34006
oxycodone	34007
oxymorphone	34065
<b>Cannabinoid &amp; Metabolites</b>	
cannabidiol	34011
cannabinol	34010
<b>Barbiturates</b>	
amobarbital	34028
aprobarbital	34029
barbital	34030
butabarbital	34031
butalbital	34032
DL-glutethimide	34058
hexobarbital	34033
mephobarbital	34034
methohexital	34035
pentobarbital	34036
phenobarbital	34037
secobarbital	34038
talbutal	34039
thiamylal	34040
thiopental	34041
<b>Other</b>	
benzphetamine	34022
cocaethylene*	34066
fenfluramine	34023
levorphanol	34003
meperidine	34004
meprobamate	34059
methaqualone	34064
methyprylon	34060
pentazocine	34062
phencyclidine	34027
phendimetrazine	34025
phenmetrazine	34026
phentermine	34024
dextro-propoxyphene	34008
thebaine	34009

\*1,000µg/mL in acetonitrile.

No datapacks available.

## USP OVI Solvents

### Residual Solvents Class 2 - Mix A (15 components)

acetonitrile	2.05µg/mL	methanol	15.00
chlorobenzene	1.80	methylcyclohexane	5.90
cyclohexane	19.40	methylene chloride	3.00
cis-1,2-dichloroethylene	4.70	tetrahydrofuran	3.45
trans-1,2-dichloro-ethylene	4.70	toluene	4.45
1,4-dioxane	1.90	m-xylene	6.51
ethylbenzene	1.84	o-xylene	0.98
		p-xylene	1.52

In dimethyl sulfoxide, 1mL/ampul

cat. # 36271 (ea.)

### Residual Solvents Class 2 - Mix B (8 components)

chloroform	300µg/mL	nitromethane	250
1,2-dimethoxyethane	500	pyridine	1,000
n-hexane (C6)	1,450	tetralin	500
2-hexanone	250	trichloroethylene	400

In dimethyl sulfoxide, 1mL/ampul

cat. # 36272 (ea.)

### Residual Solvents Class 2 - Mix C (8 components)

2-ethoxyethanol	800µg/mL	2-methoxyethanol	
ethylene glycol	3,100	(methyl Cellosolve)	250
formamide	1,100	N-methylpyrrolidone	2,650
N,N-dimethylacetamide	5,450	sulfolane	800
N,N-dimethylformamide	4,400		

In dimethyl sulfoxide, 1mL/ampul

cat. # 36273 (ea.)

## European Pharmacopoeia/ICH Solvents

### European Pharmacopoeia/ICH Q3C(M) Class 2

#### Mix C (14 components)

chlorobenzene	360µg/mL	methylene chloride	600
cyclohexane	3,880	tetrahydrofuran	720
cis-1,2-dichloroethylene	1,870	toluene	890
N,N-dimethylformamide	880	trichloroethylene	80
ethylbenzene	369	m-xylene	1,302
n-hexane (C6)	290	o-xylene	195
methylcyclohexane	1,180	p-xylene	304

In dimethyl sulfoxide, 1mL/ampul

cat. # 36274 (ea.)

### European Pharmacopoeia/ICH Q3C(M) Class 2

#### Mix A

2-ethoxyethanol	160µg/mL	N-methylpyrrolidone	530
ethylene glycol	620	sulfolane	160
formamide	220		
2-methoxyethanol			
(methyl Cellosolve)	50		

In dimethyl sulfoxide, 1mL/ampul

cat. # 36275 (ea.)

## GC Column Test Mixes

### OQ Response Linearity Test Standard

n-heptadecane (C17)		n-eicosane (C20)	100
1,000µg/mL		n-docosane (C22)	1.5
n-octadecane (C18)	10	n-tetracosane (C24)	10,000
n-nonadecane (C19)	2		

In isooctane, 1mL/ampul

cat. # 33906 (ea.)

### NPD Performance Evaluation Standard

azobenzene	6.5µg/mL	n-octadecane	100
malathion	10		

In isooctane, 1mL/ampul

cat. # 33907 (ea.)

### FID Performance Evaluation Standard

*n*-tetradecane (C14)                      *n*-hexadecane (C16)  
*n*-pentadecane (C15)  
0.03 w/w% each in hexane, 1mL/ampul  
cat. # 33908 (ea.)

### OQ/PV Headspace Standard

1,2-dichlorobenzene                      *tert*-butyl disulfide  
nitrobenzene  
2,000µg/mL each in ethanol, 1mL/ampul  
cat. # 33909 (ea.)

### ECD Performance Evaluation Standard

aldrin    γ-BHC (lindane)  
0.33 pg/mL each in isooctane, 1mL/ampul  
cat. # 32455 (ea.)

## Dimethyldichlorosilane Deactivating Agent

### Dimethyldichlorosilane (DMDCS)

Restek offers dimethyldichlorosilane (DMDCS), for deactivating liners and other glassware. Simply dilute the neat material to a 5% solution in toluene, soak the glass item(s) in the solution for 15 minutes, and rinse with toluene and methanol. DMDCS reacts with active hydroxyl groups on the glass surface producing a deactivated surface. A detailed procedure is included with the product.

Neat, 20mL/ampul

cat. # 31840 (ea.)

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