Analytical Reference Materials

New Products for 2006

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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 #: _____

E-mail: _____

U.S. Customers

FAX#: (814) 355-2895

email: standards@restek.com

online form: www.restek.com/solutions

International Customers

Contact Your

Restek Representative.

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 *tert*-butyl ether	.MTBE
purge & trap grade methanol	.PTM

Compound Packaged 1mL/ampul*	CAS#	Solvent Code	µg/mL*	Individual cat.#
ammonium picrate	131-74-8	ACN	2,000	31890
tert-amyl ethyl ether (TAEE)	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
tert-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-*n*-propylamine-d14	93951-96-3	D	1,000	33911
nonatriacontane (C39) (10mL/ampul)	7194-86-7	C	3,000	31877
α-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 µg/mL unless otherwise noted.

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

US EPA Method No.	Compound Class
501.1, 501.2, 501.3	.Trihalomethanes
502.1, 502.2	.Volatile Halogenated Organics
504	.Ethylene Dibromide/Dibromochloropropane
505	.Organohalide Pesticides & PCBs
506	.Phthalate & Adipate Esters
507	.Nitrogen & Phosphorus Pesticides
508, 508.1, 508A	.Chlorinated Pesticides
515, 515.4	.Chlorinated Acid Herbicides
521	.Nitrosamines **NEW**
524.1, 524.2	.Volatile Organics
525, 525.1, 525.2	.Semivolatile Organics **NEW**
526	.Semivolatile Organics
528	.Phenols
529	.Nitroaromatics & Nitramines **NEW**
531.1, 531.2	.Carbamates
532	.Phenylurea Pesticides
547	.Glyphosate
549	.Paraquat/Diquat
551.1	.Chlorinated Pesticides & Herbicides
552, 552.1, 552.2	.Haloacetic Acids **NEW**
555	.Chlorinated Acids

Method 521 (Nitrosamines)

Nitrosamine Calibration Mix, Method 521

(7 components)

N-nitrosodiethylamine
N-nitrosodimethylamine
N-nitrosodi-*n*-butylamine
N-nitrosodi-*n*-propylamine
N-nitrosomethylethylamine
N-nitrosopiperidine
N-nitrosopyrrolidine

1,000µg/mL each in methylene chloride, 1mL/ampul
cat. # 31898 (ea.)

N-Nitrosodimethylamine-d6

1,000µg/mL in methylene chloride, 1mL/ampul
cat. # 33910 (ea.)

N-Nitrosodi-*n*-propylamine-d14

1,000µg/mL in methylene chloride, 1mL/ampul
cat. # 33911 (ea.)

Method 525.2 (Semivolatile Organics)

Method 525.2 Semivolatile Mix (revised)

(28 components)

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

1,000µg/mL each in acetone, (*pentachlorophenol at 4,000µg/mL), 1mL/ampul
cat. # 31899 (ea.)

Ken Herwehe
Analytical Reference Materials Marketing Manager
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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

1,000µg/mL each in acetonitrile, 1mL/ampul
cat. # 33900 (ea.)

3,4-Dinitrotoluene

2,000µg/mL in ethyl acetate, 1mL/ampul
cat. # 33901 (ea.)

2-Nitromesitylene

2,000µg/mL in methanol, 1mL/ampul
cat. # 33902 (ea.)

1,2,4-Trimethyl-5-nitrobenzene

2,000µg/mL in methanol, 1mL/ampul
cat. # 33903 (ea.)

Nitrobenzene-d5

2,000µg/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	

1,000µg/mL each in methyl *tert*-butyl ether, 1mL/ampul
cat. # 31896 (ea.)

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
418.1	Total Recoverable Petroleum Hydrocarbons (TRPH)
1311	Toxicity Characteristics Leaching Procedure (TCLP)
1664	Oil & Grease
3500	Organic Extraction Surrogate
8010	Halogenated Volatile Organics
8011	1,2-Dibromoethane, 1,2-Dibromo-3-chloropropane
8020	Aromatic Volatile Organics
8021	Volatile Organics
8040	Phenols
8061A	Phthalate Esters
8080, 8081	Chlorinated Pesticides
8082, 8082A	PCBs
8091	1-Chloro-3-Nitrobenzene **NEW**
8095	Explosives by GC **NEW**
8100	Polynuclear Aromatic Hydrocarbons
8140, 8141	Organophosphorus Pesticides
8240	Volatile Organic Compounds (VOC)
8260, 8260A, 8260B	Volatile Organic Compounds (VOC) **NEW**
8270D, 8270C	Reformulated Semivolatile Organic Compounds **NEW**
8310	Polynuclear Aromatic Hydrocarbons (PAHs)
8315	Aldehydes/Ketones-DNPH by HPLC
8321	Chlorinated Acids by HPLC
8330	Nitroaromatics and Nitramines by HPLC **NEW**

Method 8091 (1-Chloro-3-Nitrobenzene)

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)

acenaphthane-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
04.2 and 04.1	Volatiles
3/90 SOW	Volatiles
10/92 SOW	Volatiles
03.2 OLC	Volatiles
SOM01.0	Semivolatiles **NEW**
03.2 OLC	Semivolatiles
4.2 and 04.1 SOW	Semivolatiles **NEW**
4/89 and 3/90 SOW	Semivolatiles
04.1, 3/90, 4/89 and 2/88 SOW	Individual Surrogates
SOM01.0	Pesticides **NEW**
SOM01.0	Aroclors **NEW**
04.2, 04.1, 03.2, 3/90 and 4/89	Pesticides
04.2, 04.1, 03.2, 3/90 and 4/89	Aroclors

SOM01.1 (Volatiles)

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.)

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 (dichloromethane)
chloroform	styrene
cyclohexane	1,1,2,2-tetrachloroethane
dibromochloromethane (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 (Freon® 113)
1,1-dichloroethylene	*m*-xylene*
cis-1,2-dichloroethylene	*o*-xylene
trans-1,2-dichloroethylene	*p*-xylene*
1,2-dichloropropane	
cis-1,3-dichloropropene	

2,000µg/mL each (**m*- & *p*-xylene at 1,000µg/mL) in P&T methanol, 1mL/ampul

cat. # 30492 (ea.) $0000.00

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 (isomer B)	10
dieldrin	20	methoxychlor	100
4,4'-DDD	20	2,4,5,6-tetrachloro-*m*-xylene	10
4,4'-DDE	20		
4,4'-DDT	20		

In hexane:toluene, 1mL/ampul

cat. # 32454 (ea.)

Pesticide Surrogate Mix

decachlorobiphenyl	200µg/mL
2,4,5,6-tetrachloro-*m*-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 SVOA B/N Matrix Spike Mix

acenaphthene N-nitroso-di-*n*-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.)

04.2 and 04.1 (Semivolatiles)

Revised SV Internal Standard Mix (7 components)

acenaphthane-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.)

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
Retention Time Standards	Hydrocarbons
Composite Fuel Standards	Hydrocarbons
Composite Motor Oil Standards	Hydrocarbons
Single Source Fuel Standards	Diesel/Biodiesel **NEW**
Single Source Motor Oil Standards	Hydrocarbons
Creosote Oil	Hydrocarbons, PAHs
Hydraulic Oil	Hydrocarbons
Degraded Fuel Standard	Hydrocarbons
Mineral Spirits	Hydrocarbons
PVOC, GRO and BETX	Hydrocarbons
Certified BETX, GRO and Diesel Standards	Hydrocarbons
Skinner List	Volatiles
Skinner List	Semivolatiles
Gasoline Internal and Surrogate Standards	Volatiles
Diesel Internal and Surrogate Standards	Semivolatiles

???????

Oxygenates

tert-amyl ethyl ether (TAEE)	2,000µg/mL	diisopropyl ether (DIPE)	2,000
tert-amyl methyl ether (TAME)	2,000	ethyl-*tert*-butyl ether (ETBE)	2,000
tert-butyl alcohol (TBA)	10,000	methyl *tert*-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-*tert*-butyl ether (ETBE)	637-92-3	30628
tert-amyl ethyl ether (TAEE)	919-94-8	30617
tert-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
Alaska	Hydrocarbons
Arizona	Hydrocarbons
California/Los Angeles	Hydrocarbons
Connecticut	Hydrocarbons
Florida	Hydrocarbons **NEW**
Iowa	Hydrocarbons
Massachusetts	Hydrocarbons
Michigan	Hydrocarbons
Mississippi	Hydrocarbons
Northwest (Oregon & Washington)	Hydrocarbons
Pennsylvania	Hydrocarbons
Tennessee/Mississippi	Hydrocarbons
Texas	Hydrocarbons
Washington	Hydrocarbons
Wisconsin	Hydrocarbons

Florida

Florida TRPH Standard (17 components)

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

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 **NEW**
Air Monitoring Mixtures	oxazoladines **NEW**
Exempted Drug of Abuse Reference Materials	**NEW**
USP OVI Solvents	**NEW**
European Pharmacopoeia/ICH Solvents	**NEW**
GC Column Test Mixes	**NEW**
Dimethyldichlorosilane Deactivating Agent	**NEW**

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.#
Benzodiazepines	
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
Cocaine & Metabolites	
cocaine HCL	34015
benzoylecgonine	34016
ecgonine	34017
ecgonine methyl ester	34018
Methadone & Metabolites	
methadone	34005
Amphetamines & Metabolites	
d-amphetamine	34020
(+)methamphetamine	34021
Opiates & Metabolites	
codeine	34000
hydrocodone	34002
hydromorphone	34063
morphine	34006
oxycodone	34007
oxymorphone	34065
Cannabinoid & Metabolites	
cannabidiol	34011
cannabinol	34010
Barbiturates	
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
Other	
benzphetamine	34022
cocaethylene*	34066
fenfluamine	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 (methyl Cellosolve)	250
ethylene glycol	3,100	N-methylpyrrolidone	2,650
formamide	1,100	sulfolane	800
N,N-dimethylacetamide	5,450		
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.)

No data pack available.

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