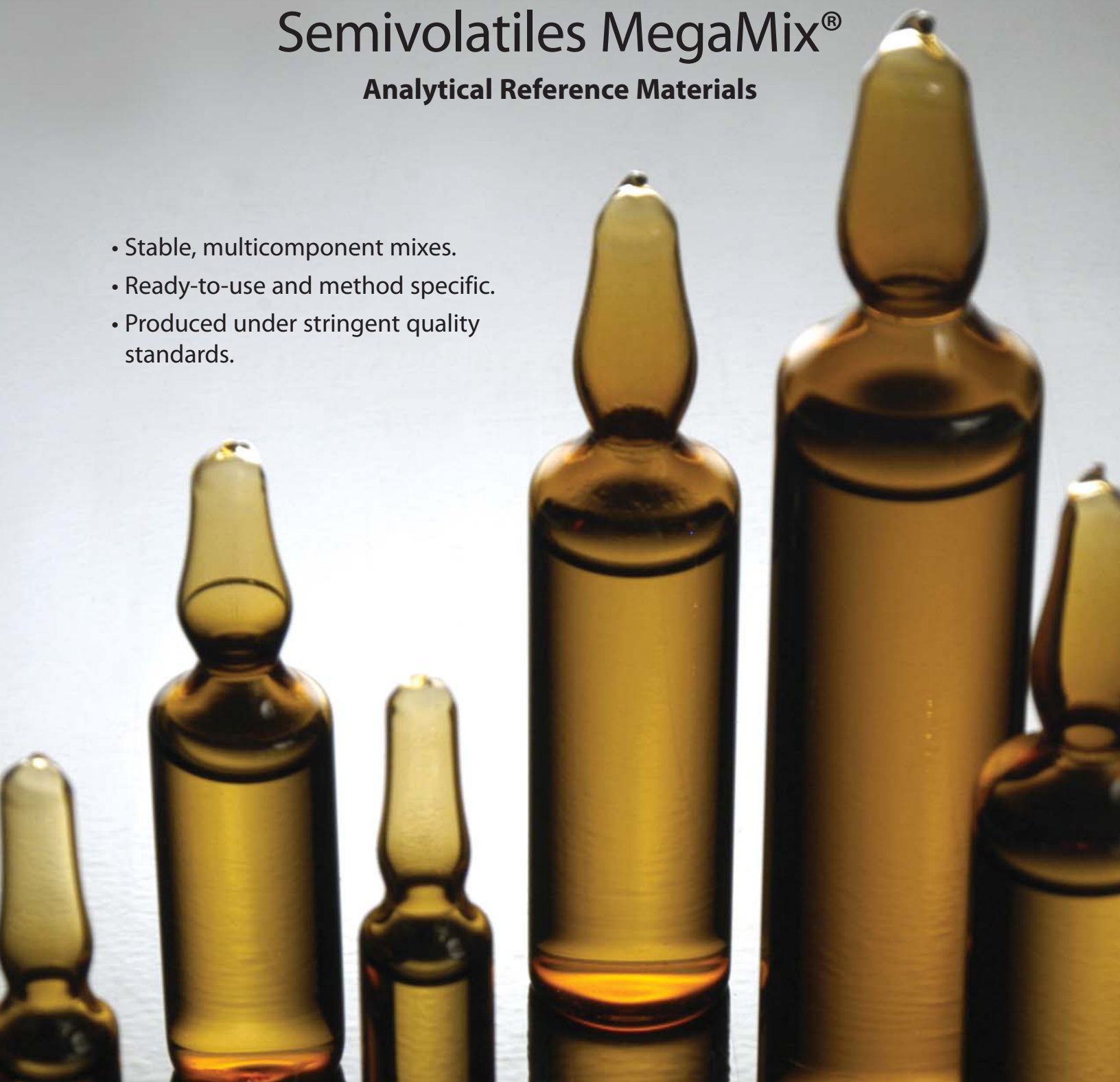


Semivolatiles MegaMix[®]

Analytical Reference Materials

- Stable, multicomponent mixes.
- Ready-to-use and method specific.
- Produced under stringent quality standards.



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Semivolatiles MegaMix® Analytical Reference Materials

Restek offers specific MegaMix® solutions designed expressly for major environmental methods. All of our formulations are researched and developed to provide you with stable blends of the maximum number of target analytes. Our mixes are prepared under stringent quality systems in accordance with our ISO 9001:2000 registration. Use the handy “My Mix” column to quickly compare your current mix to the extensive list of compounds offered in our MegaMix® solutions.

	Method Number and MegaMix® Number							
	"My Mix"	525.2 (cat.# 31899)	625 (cat.# 31829)	8270 (cat.# 31850)	SOM01.1 (cat.# 33019)	CLP 04.1 (cat.# 33018)	OLC 03.2 (cat.# 31862)	Skinner List (cat.# 31690)
acenaphthene			X	X	X	X	X	X
acenaphthylene		X	X	X	X	X	X	
acetophenone					X	X	X	
aniline				X				
anthracene		X	X	X	X	X	X	X
atrazine					X	X	X	
azobenzene ¹				X				
benzaldehyde							X	
benzo(a)anthracene		X	X	X	X	X	X	X
benzo(a)pyrene		X	X	X	X	X	X	X
benzo(b)fluoranthene		X	X	X	X	X	X	X
benzo(ghi)perylene		X	X	X	X	X	X	
benzo(k)fluoranthene		X	X	X	X	X	X	X
benzyl alcohol				X				
benzyl butyl phthalate		X	X	X	X	X	X	
biphenyl					X	X	X	
bis(2-chloroethoxy)methane			X	X	X	X	X	
bis(2-chloroethyl)ether			X	X	X	X	X	
bis(2-chloroisopropyl)ether			X	X	X	X	X	
bis(2-ethylhexyl)adipate		X		X				
bis(2-ethylhexyl)phthalate		X	X	X	X	X	X	X
4-bromophenyl phenyl ether			X	X	X	X	X	
ε-caprolactam					X	X	X	
carbazole				X	X	X	X	
4-chloroaniline				X	X	X		
4-chloro-3-methylphenol			X	X	X		X	
2-chloronaphthalene			X	X	X	X	X	
2-chlorophenol			X	X	X	X	X	
4-chlorophenyl phenyl ether			X	X	X	X	X	
chrysene		X	X	X	X	X	X	X
dibenzo(a,h)acridine								X
dibenzo(a,h)anthracene		X	X	X	X	X	X	X
dibenzofuran				X	X	X	X	
1,2-dichlorobenzene			X	X				X
1,3-dichlorobenzene			X	X				X
1,4-dichlorobenzene			X	X				X
3,3'-dichlorobenzidine					X			
2,4-dichlorophenol			X	X	X			
diethylphthalate		X	X	X	X	X	X	X
2,4-dimethylphenol			X	X	X	X	X	
dimethylphthalate		X	X	X	X	X	X	X
di- <i>n</i> -butyl phthalate		X	X	X	X	X	X	X
1,2-dinitrobenzene				X				
1,3-dinitrobenzene				X				

	Method Number and MegaMix® Number							
	"My Mix"	525.2 (cat.# 31899)	625 (cat.# 31829)	8270 (cat.# 31850)	SOM01.1 (cat.# 33019)	CLP 04.1 (cat.# 33018)	OLC 03.2 (cat.# 31862)	Skinner List (cat.# 31690)
1,4-dinitrobenzene				X				
4,6-dinitro-2-methylphenol			X	X	X			
2,4-dinitrophenol			X	X	X		X	X
2,4-dinitrotoluene		X	X	X	X	X	X	
2,6-dinitrotoluene		X	X	X	X	X	X	
di- <i>n</i> -octyl phthalate		X	X	X	X	X	X	
diphenylamine ²			X	X	X	X		
fluoranthene		X	X	X	X	X	X	X
fluorene		X	X	X	X	X	X	X
hexachlorobenzene		X	X	X	X	X	X	
hexachlorobutadiene			X	X	X	X	X	
hexachlorocyclopentadiene		X	X	X	X	X	X	
hexachloroethane			X	X	X	X	X	
indene								X
indeno(1,2,3-cd)pyrene		X	X	X	X	X	X	X
isophorone		X	X	X	X	X	X	
1-methylnaphthalene				X				X
2-methylnaphthalene				X	X	X	X	
2-methylphenol				X	X		X	X
3-methylphenol				X	X		X	X
4-methylphenol				X	X		X	X
naphthalene		X	X	X	X	X	X	X
2-nitroaniline				X	X	X		
3-nitroaniline				X	X	X		
4-nitroaniline				X	X	X		
nitrobenzene			X	X	X	X	X	
2-nitrophenol			X	X	X		X	
4-nitrophenol			X	X	X			X
N-nitrosodimethylamine			X	X				
N-nitroso-di- <i>n</i> -propylamine			X	X	X	X	X	
N-nitrosodiphenylamine							X	
pentachlorophenol		X	X	X	X		X	
phenanthrene		X	X	X	X	X	X	X
phenol			X	X	X		X	X
pyrene		X	X	X	X	X	X	X
pyridine				X				X
quinoline								X
1,2,4,5-tetrachlorobenzene					X		X	
2,3,4,6-tetrachlorophenol					X	X		
2,3,5,6-tetrachlorophenol					X			
1,2,4-trichlorobenzene			X	X				
2,4,5-trichlorophenol				X	X			
2,4,6-trichlorophenol			X	X	X		X	
Total Target Analytes		28	54	76	67	49	57	33

¹1,2-diphenylhydrazine (listed analyte) decomposes to azobenzene (mix component).

²N-nitrosodiphenylamine (listed analyte) decomposes to diphenylamine (mix component).

Semivolatiles MegaMix® Analytical Reference Materials

Features	Benefits
Carefully researched formulations: most target analytes in a single, stable mix.	Fewest solutions compatible with maximum shelf life: fewer ampules to open, fewer errors in preparation.
Support major environmental methods.	Ready-to-use mixes to meet your lab's complete needs.
Calibration mixes prepared in two independent lots.	Assured lot agreement; ordering convenience.

Calibration Mixes

See list of components on page 2.

Method 525.2 Semivolatile Mix (revised)

(28 components)

1,000µg/mL each in acetone, (pentachlorophenol at 4,000µg/mL), 1mL/ampul

cat. # 31899

Semivolatiles MegaMix®, EPA Method 625

(54 components)

1,000µg/mL each in methylene chloride:benzene (75:25), 1mL/ampul
cat. # 31829

N-nitrosodiphenylamine is listed as an "additional compound" in Method 625 (listed compound N-nitrosodiphenylamine decomposes to MegaMix® component diphenylamine). The six other "additional compounds" are components in other Restek reference mixes used for Method 625: benzidine is included in cat.# 31030; β-BHC, δ-BHC, endosulfan I, endosulfan II, endrin are in cat.# 32291 and cat.# 32415. See our catalog or website.

8270 MegaMix® (76 components)

1,000µg/mL each in methylene chloride (3-methylphenol and 4-methylphenol at 500µg/mL), 1mL/ampul^{1,2}
cat. # 31850

SOM01.1 SVOA MegaMix® (67 components)

1,000µg/mL each in methylene chloride (3-methylphenol and 4-methylphenol at 500µg/mL), 1mL/ampul²
cat. # 33019

SOM01.1 SVOA MegaMix® Kit

33019: SOM01.1 SVOA MegaMix® 1,000µg/mL
33017: Benzaldehyde 2,000µg/mL

kit

Contains 1mL each of these mixtures.
cat. # 33005

CLP 04.1 B/N MegaMix® (49 components)

1,000µg/mL each in methylene chloride, 1mL/ampul²
cat. # 33018

CLP 04.1 B/N MegaMix® Kit

33018: CLP 04.1 B/N MegaMix® 1,000µg/mL
33017: Benzaldehyde 2,000µg/mL

kit

Contains 1mL each of these mixtures.
cat. # 33014

OLC 03.2 SVOA MegaMix® (57 components)

1,000µg/mL each in methylene chloride, 1mL/ampul
cat. # 31862

Skinner List - SV MegaMix® (33 components)

2,000µg/mL each in methylene chloride (3-methylphenol and 4-methylphenol at 1,000µg/mL each), 1mL/ampul
cat. # 31690

QA Mixes

8270 Matrix Spike Mix (76 components)

Same list as 8270 MegaMix® (cat. # 31850); see page 2.

200µg/mL each in methanol:methylene chloride:benzene (80:15:5) (3-methylphenol and 4-methylphenol at 100µg/mL), 5mL/ampul^{1,2}
cat. # 31687

Method 525.2 Internal Standard Mix

acenaphthene-d10 phenanthrene-d10
chrysene-d12
1,000µg/mL each in acetone, 1mL/ampul
cat. # 31825

Method 525.2 Surrogate Standard Mix

2-nitro-*m*-xylene pyrene-d10
perylene-d12 triphenylphosphate
1,000µg/mL each in acetone, 1mL/ampul
cat. # 31826

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
4,000µg/mL each in methylene chloride, 1mL/ampul
cat. # 31006

B/N Surrogate Mix (4/89 SOW)

2-fluorobiphenyl *p*-terphenyl-d14
nitrobenzene-d5
1,000µg/mL each in methylene chloride, 1mL/ampul
cat. # 31024
5,000µg/mL each in methylene chloride, 1mL/ampul
cat. # 31062
5,000µg/mL each in methylene chloride, 5mL/ampul
cat. # 31086
5,000µg/mL each in methylene chloride, 10mL/ampul
cat. # 33028

Acid Surrogate Mix (4/89 SOW)

2-fluorophenol 2,4,6-tribromophenol
phenol-d6
2,000µg/mL each in methanol, 1mL/ampul
cat. # 31025
10,000µg/mL each in methanol, 1mL/ampul
cat. # 31063
10,000µg/mL each in methanol, 5mL/ampul
cat. # 31087
10,000µg/mL each in methylene chloride, 10mL/ampul
cat. # 33029

¹1,2-diphenylhydrazine (listed analyte) decomposes to azobenzene (mix component).

²N-nitrosodiphenylamine (listed analyte) decomposes to diphenylamine (mix component).

free data

Available on Our Website:
Lot Certificates, Data Packs,
and MSDSs

For complete information detailing manufacturing and testing for Restek inventoried reference standards, just visit our website at www.restek.com. To view lot certificates and/or an MSDS, enter the catalog number of the product in the Search feature. For a free data pack, enter the catalog number and lot number of the product, to obtain a printable pdf file.

QA Mixes, cont'd



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

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

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	
7,500µg/mL each in methanol, 1mL/ampul	
cat. # 31073	
7,500µg/mL each in methanol, 5mL/ampul	
cat. # 31083	

GC/MS Tuning Mixture

benzidine	DFTPP
4,4'-DDT	pentachlorophenol
1,000µg/mL each in methylene chloride, 1mL/ampul	
cat. # 31615	

PFTBA (MS Tuning Compound)

perfluorotributylamine (PFTBA)
Neat
1mL cat. # 30482
1g cat. # 33027

No data pack available.

SV Tuning Compound

decafluorotriphenylphosphine (DFTPP)
2,500µg/mL in methylene chloride, 1mL/ampul
cat. # 31001

Acid Matrix Spike Mix

4-chloro-3-methylphenol	pentachlorophenol
2-chlorophenol	phenol
4-nitrophenol	
1,500µg/mL each in methanol, 1mL/ampul	
cat. # 31005	
7,500µg/mL each in methanol, 1mL/ampul	
cat. # 31075	
7,500µg/mL each in methanol, 5mL/ampul	
cat. # 31085	

B/N Matrix Spike Mix

acenaphthene	N-nitroso-di-n-propylamine
1,4-dichlorobenzene	pyrene
2,4-dinitrotoluene	1,2,4-trichlorobenzene
1,000µg/mL each in methanol, 1mL/ampul	
cat. # 31004	
5,000µg/mL each in methanol, 1mL/ampul	
cat. # 31074	
5,000µg/mL each in methanol, 5mL/ampul	
cat. # 31084	
5,000µg/mL each in methylene chloride, 10mL/ampul	
cat. # 33030	

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	

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	

SOM01.1 Deuterated Monitoring Compound Mix SIM Compounds

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

ISO 9001:2000
cert. # FM80397

Lit. Cat.# 580094

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Australian Distributors **ECH**nology
www.chromtech.net.au E-mail : info@chromtech.net.au Tel : +61 3 9762 2034 Fax : +61 3 9761 1169