

# CRMs for Semi-Volatile Analysis by GC/MS ISO Guide 34 Accredited



*Innovative Controls to Support Data Quality*

## Pure

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Manufactured from the highest purity solvents and analytically verified neat source materials.

## Certified

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The accuracy, homogeneity, and performance of each standard lot is certified by GCMS analysis against independent reference standards. Manufactured and certified to ISO Guide 34 requirements.

## Stable

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Standards are stable for at least 2 years from manufacture and we even go through the extra effort to verify stability under aggravated conditions.

## Traceable

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The certified concentration of all of our standards is traceable to SI through NIST test masses.

## 8270 BNA Mix (76 Components – 1000 ug/mL except where noted)

1,2,4-Trichlorobenzene	bis(2-Chloroethoxy)methane	2-Methylnaphthalene	Hexachlorocyclopentadiene
1,2-Dichlorobenzene	bis(2-Chloroethyl)ether	2-Nitrophenol	Hexachloroethane
1,2-Dinitrobenzene	bis(2-Chloroisopropyl)ether	4,6-Dinitro-2-methylphenol	Indeno(1,2,3-c,d)pyrene
1,3-Dichlorobenzene	bis(2-Ethylhexyl)adipate	4-Bromophenyl phenyl ether	Isophorone
1,3-Dinitrobenzene	bis(2-Ethylhexyl)phthalate	4-Chloro-3-methylphenol	m-Cresol (500 ug/mL)
1,4-Dichlorobenzene	Butyl benzyl phthalate	4-Chloroaniline	m-Nitroaniline
1,4-Dinitrobenzene	Carbazole	4-Chlorophenyl phenyl ether	N-Nitrosodi-n-propylamine
1-Methylnaphthalene	Chrysene	4-Nitrophenol	N-Nitrosodimethylamine
2,3,4,6-Tetrachlorophenol	Di-n-butyl phthalate	Acenaphthene	Naphthalene
2,3,5,6-Tetrachlorophenol	Di-n-octyl phthalate	Acenaphthylene	Nitrobenzene
2,4,5-Trichlorophenol	Dibenz(a,h)anthracene	Aniline	o-Cresol
2,4,6-Trichlorophenol	Dibenzofuran	Anthracene	o-Nitroaniline
2,4-Dichlorophenol	Diethyl phthalate	Azobenzene	p-Cresol (500 ug/mL)
2,4-Dimethyl phenol	Dimethyl phthalate	Benzo(a)anthracene	p-Nitroaniline
2,4-Dinitrophenol	Diphenylamine	Benzo(a)pyrene	Pentachlorophenol
2,4-Dinitrotoluene	Fluoranthene	Benzo(b)fluoranthene	Phenanthrene
2,6-Dinitrotoluene	Fluorene	Benzo(g,h,i)perylene	Phenol
2-Chloronaphthalene	Hexachlorobenzene	Benzo(k)fluoranthene	Pyrene
2-Chlorophenol	Hexachlorobutadiene	Benzyl alcohol	Pyridine

1000 ug/mL in Methylene chloride

C-701	1.5 mL	\$110.00
C-701P	4 x 1.5 mL	\$389.00
C-701TP	10 x 1.5 mL	\$918.00

## Benzidines Mix

Benzidine  
3,3'-Dichlorobenzidine

2000 ug/mL in Methanol

C-402	1.5 mL	\$25.00
C-402P	4 x 1.5 mL	\$85.00
C-402TP	10 x 1.5 mL	\$200.00

## Benzidines Mix II

Benzidine  
3,3'-Dichlorobenzidine  
3,3'-Dimethylbenzidine

2000 ug/mL in Methanol

C-411	1.5 mL	\$30.00
C-411P	4 x 1.5 mL	\$90.00

## Appendix IX SVOC Mix 1

a,a-Dimethylphenethylamine  
 2-Acetylaminofluorene  
 4-Aminobiphenyl  
 4-Dimethylaminoazobenzene  
 3,3'-Dimethylbenzidine  
 1-Naphthylamine  
 2-Naphthylamine  
 5-Nitro-o-toluidine  
 N-Nitrosodiethylamine  
 N-Nitrosodi-n-butylamine  
 N-Nitrosomethylethylamine  
 N-Nitrosomorpholine  
 N-Nitrosopiperidine  
 N-Nitrosopyrrolidine  
 1,4-Phenylenediamine  
 2-Picoline  
 a-Toluidine

### 2000 ug/mL in Methylene chloride

C-731	1.5 mL	\$35.00
C-731P	4 x 1.5 mL	\$126.00

## Appendix IX SVOC Mix 2

Aramite  
 Acetophenone  
 Chlorobenzilate  
 1-Chloronaphthalene  
 Diallate (cis and trans)  
 Dibenz(a,j)acridine  
 2,6-Dichlorophenol  
 7,12-Dimethylbenz(a)anthracene  
 Ethyl methanesulfonate  
 Hexachloropropene  
 Isodrin  
 Isosafrole (cis and trans)  
 Kepone  
 3-Methylcholanthrene

### 2000 ug/mL in Methylene chloride

C-732	1.5 mL	\$51.00
C-732P	4 x 1.5 mL	\$185.00

1,4-Naphthoquinone  
 4-Nitroquinoline-N-oxide  
 Pentachlorobenzene  
 Methyl methanesulfonate  
 Pentachloronitrobenzene  
 Pentachloroethane  
 Phenacetin  
 Pronamide  
 Safrole  
 1,2,4,5-Tetrachlorobenzene  
 1,3,5-Trinitrobenzene  
 Dinoseb  
 3,5-Dimethylphenol  
 4-Chlorophenol

## 8270C Organophosphorus Pesticides

Dimethoate  
 Disulfoton  
 Famphur  
 Methyl parathion  
 Parathion  
 Phorate  
 Sulfotepp  
 Thionazin  
 o,o,o-Triethylphosphorothioate

### 2000 ug/mL in Hexane/Methylene chloride

C-417	1.5 mL	\$60.00
C-417P	4 x 1.5 mL	\$200.00

## Semivolatile Internal Standards

Acenaphthene-d10  
 Chrysene-d12  
 1,4-Dichlorobenzene-d4  
 Naphthalene-d8  
 Perylene-d12  
 Phenanthrene-d10

### 2000 ug/mL in Methylene chloride/Carbon disulfide

C-394L	1.5 mL	\$45.00
C-394LP	4 x 1.5 mL	\$155.00
C-394LTP	10 x 1.5 mL	\$360.00

### 4000 ug/mL in Methylene chloride/Carbon disulfide

C-394H	1.5 mL	\$78.00
C-394HP	4 x 1.5 mL	\$248.00
C-394HTP	10 x 1.5 mL	\$565.00

## BNA Surrogate Calibration Standard

2-Fluorophenol  
 Phenol-d5  
 2,4,6-Tribromophenol  
 2-Fluorobiphenyl  
 Nitrobenzene-d5  
 p-Terphenyl-d14

### 4000 ug/mL in Methylene chloride

C-603	1.5 mL	\$88.00
C-603P	4 x 1.5 mL	\$300.00

## Semivolatiles in Soil LCS

Ready to use as received. Extract the entire mass of a single vial to fulfill periodic LCS requirements. Available in 30 gram and 10 gram sizes. Store in freezer. Contains all listed analytes at 2000 ug/kg. Can be economically customized to other concentrations to meet your specific needs.

1,2,4-Trichlorobenzene	4-Nitrophenol	Diethyl phthalate
1,2-Dichlorobenzene	$\alpha$ -Terpineol	Dimethyl phthalate
1,2-Dinitrobenzene	Acenaphthene	Fluoranthene
1,3-Dichlorobenzene	Acenaphthylene	Fluorene
1,3-Dinitrobenzene	Acetophenone	Hexachlorobenzene
1,4-Dichlorobenzene	Aniline	Hexachlorobutadiene
1,4-Dinitrobenzene	Anthracene	Hexachlorocyclopentadiene
1-Methylnaphthalene	Azobenzene	Hexachloroethane
2,3,4,6-Tetrachlorophenol	Benzo(a)anthracene	Indeno(1,2,3-c,d)pyrene
2,3,5,6-Tetrachlorophenol	Benzo(a)pyrene	Isophorone
2,3-Dichloroaniline	Benzo(b)fluoranthene	m-Nitroaniline
2,4,5-Trichlorophenol	Benzo(g,h,i)perylene	n-Decane
2,4,6-Trichlorophenol	Benzo(k)fluoranthene	N-Nitrosodi-n-propylamine
2,4-Dichlorophenol	Benzoic acid	N-Nitrosodimethylamine
2,4-Dimethylphenol	Benzyl alcohol	N-Nitrosodiphenylamine
2,4-Dinitrophenol	bis(2-Chloroethoxy)methane	n-Octadecane
2,4-Dinitrotoluene	bis(2-Chloroethyl)ether	Naphthalene
2,6-Dinitrotoluene	bis(2-Chloroisopropyl)ether	Nitrobenzene
2-Chloronaphthalene	bis(2-Ethylhexyl)adipate	o-Cresol
2-Chlorophenol	bis(2-Ethylhexyl)phthalate	o-Nitroaniline
2-Methylnaphthalene	Butyl benzyl phthalate	p-Cresol
2-Nitrophenol	Carbazole	p-Nitroaniline
4,6-Dinitro-2-methylphenol	Chrysene	Pentachlorophenol
4-Bromophenyl phenyl ether	Di-n-butyl phthalate	Phenanthrene
4-Chloro-3-methylphenol	Di-n-octylphthalate	Phenol
4-Chloroaniline	Dibenz(a,h)anthracene	Pyrene
4-Chlorophenyl phenyl ether	Dibenzofuran	Pyridine

SMO-SV-30	20 x 30 gram	\$160.00
SMO-SV-10	20 x 10 gram	\$160.00