

FAST FACTS

At-a-Glance
Product
Information
from Restek

US Environmental Protection Agency (EPA) Method 8270D outlines the analysis of semi-volatile organic pollutants in solid waste, soil, water, and air matrices using gas chromatography/mass spectrometry (GC/MS). Update IVA of the third edition of SW-846—Test Methods for Evaluating Solid Waste, Physical/Chemical Methods—includes EPA Method 8270D, in which there were no major revisions from EPA Method 8270C.

Restek chemists have carefully reviewed EPA methods 8270C and 8270D, and prepare analytical reference materials to include all of the most commonly calibrated compounds. The compounds have been grouped to provide flexibility, convenience, and maximum stability. Restek also offers all the required surrogate, internal standard, calibration check, matrix spike, and tuning mixtures required for these methods.

For more information,
Call 800-356-1688 or 814-353-1300, ext. 4,
or
Contact Your Local Restek
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Semivolatile Organic Reference Materials

US EPA Methods 8270D/Appendix IX Target Compounds

Feature	Benefit
<ul style="list-style-type: none">Carefully researched formulations.Data packs available.Calibration mixes available in two independent lots.	<ul style="list-style-type: none">Fewest solutions compatible with maximum shelf life and no chemical interactions.Complies with stringent audits.Assured agreement, ordering convenience.
8270C calibration mixtures are subdivided into separate solutions. These are:	
8270 MegaMix™ 76 components @ 1000µg/mL in methylene chloride:benzene (75:25), 3- & 4-methylphenol @ 500µg/mL, 1mL/ampul cat.# 31686	Calibrate for all components in one analysis – 3- & 4-methylphenol included at 1/2 concentration of other components. 18-month shelf life.*
8270 Matrix Spike Mix 76 components @ 200µg/mL in methanol:methylene chloride:benzene (80:15:5), 3- & 4-methylphenol @ 100µg/mL, 5mL/ampul cat.# 31687	Calibrate for all components in one analysis – 3- & 4-methylphenol included at 1/2 concentration of other components. 18-month shelf life.*
8270 Benzidines Mix 3 components @ 2000µg/mL in methanol, 1mL/ampul cat.# 31688	Contains commonly analyzed 8270C benzidine compounds. 37-month shelf life.*
605 Benzidines Calibration Mix 2 components @ 2000µg/mL in methanol, 1mL/ampul cat.# 31030	Contains commonly analyzed 8270C benzidine compounds. 36-month shelf life.*
Appendix IX Mix #1 18 basic compounds @ 2000µg/mL in methylene chloride, 1mL/ampul cat.# 31625	Most commonly analyzed Appendix IX basic compounds; add only as needed. 24-month shelf life.*
Appendix IX Mix #2 32 components @ 2000µg/mL in benzene:methylene chloride (75:25), 1mL/ampul cat.# 31806	Most commonly analyzed Appendix IX compounds; add only as needed. 12-month shelf life.*
Organophosphorous Pesticide Mix, 8270/Appendix IX 9 organophosphorous pesticides @ 2000µg/mL in methylene chloride, 1mL/ampul cat.# 32419	Most commonly analyzed 8270C/Appendix IX organophosphorous compounds; add only as needed. 36-month shelf life.*
Organochlorine Pesticide Mix AB #3 20 organochlorine pesticides @ 2000µg/mL in hexane:toluene (1:1), 1mL/ampul cat.# 32415	Most commonly analyzed 8270C/Appendix IX organochlorine pesticides; add only as needed. 37-month shelf life.*
Organochlorine Pesticide Mix AB #1 20 organochlorine pesticides @ 200µg/mL in hexane:toluene (1:1), 1mL/ampul cat.# 32291	Most commonly analyzed 8270C/Appendix IX organochlorine pesticides; add only as needed. 37-month shelf life.*
Organochlorine Pesticide Mix AB #2 20 organochlorine pesticides @ 8-80µg/mL in hexane:toluene (1:1), 1mL/ampul cat.# 32292	Most commonly analyzed 8270C/Appendix IX organochlorine pesticides; add only as needed. 37-month shelf life.*

*Shelf life is based on an unopened ampul stored at the recommended temperature.

Semivolatile Organic Reference Materials

8270 MegaMix™ (76 components)

acenaphthene	2,4-dinitrophenol
acenaphthylene	2,4-dinitrotoluene
aniline	2,6-dinitrotoluene
anthracene	di- <i>n</i> -butyl phthalate
azobenzene ¹	di- <i>n</i> -octyl phthalate
benzo(a)anthracene	diphenylamine ²
benzo(a)pyrene	fluorene
benzo(b)fluoroanthene	fluoroanthene
benzo(ghi)perylene	hexachlorobenzene
benzo(k)fluoroanthene	hexachlorobutadiene
benzyl alcohol	hexachlorocyclopentadiene
benzyl butyl phthalate	hexachloroethane
bis 2-ethylhexyl adipate	indeno(1,2,3-cd)pyrene
bis(2-chloroethoxy)methane	isophorone
bis(2-chloroethyl)ether	1-methylnaphthalene
bis(2-chloroisopropyl)ether	2-methylnaphthalene
bis(2-ethylhexyl)phthalate	2-methylphenol
4-bromophenyl phenyl ether	3-methylphenol*
carbazole	4-methylphenol*
4-chloroaniline	naphthalene
4-chloro-3-methylphenol	2-nitroaniline
2-chloronaphthalene	3-nitroaniline
2-chlorophenol	4-nitroaniline
4-chlorophenyl phenyl ether	nitrobenzene
chrysene	2-nitrophenol
dibenz(a,h)anthracene	4-nitrophenol
dibenzofuran	N-nitrosodimethylamine
1,2-dichlorobenzene	N-nitroso-di- <i>n</i> -propylamine
1,3-dichlorobenzene	pentachlorophenol
1,4-dichlorobenzene	phenanthrene
2,4-dichlorophenol	phenol
diethyl phthalate	pyrene
dimethyl phthalate	pyridine
2,4-dimethylphenol	2,3,4,6-tetrachlorophenol
1,2-dinitrobenzene	2,3,5,6-tetrachlorophenol
1,3-dinitrobenzene	1,2,4-trichlorobenzene
1,4-dinitrobenzene	2,4,5-trichlorophenol
4,6-dinitro-2-methylphenol	2,4,6-trichlorophenol

1,000µg/mL each (except where noted) in methylene chloride:benzene (75:25), 1mL/ampul

Each	5-pk.	10-pk.
31686	31686-510	—
w/data pack		
31686-500	31686-520	31786

*Concentration is 500µg/mL.

¹1,2-diphenylhydrazine (8270-listed analyte) decomposes to azobenzene (mix component).

²N-nitrosodiphenylamine (8270-listed analyte) decomposes to diphenylamine (mix component).

8270 Matrix Spike Mix (76 components)

Same 76 components as listed above in the 8270 MegaMix™.

200µg/mL each in methanol:methylene chloride:benzene (80:15:5), 5mL/ampul**

Each	5-pk.	10-pk.
31687	31687-510	—
w/data pack		
31687-500	31687-520	31787

**3-methylphenol and 4-methylphenol concentration is 100µg/mL.

8270 Benzidines Mix

benzidine
3,3'-dichlorobenzidine
3,3'-dimethylbenzidine
2,000µg/mL each in methanol, 1mL/ampul

Each	5-pk.	10-pk.
31688	31688-510	—
w/data pack		
31688-500	31688-520	31788

605 Benzidines Calibration Mix

benzidine
3,3'-dichlorobenzidine
2,000µg/mL each in methanol, 1mL/ampul

Each	5-pk.	10-pk.
31030	31030-510	—
w/data pack		
31030-500	31030-520	31130

Appendix IX Mix #1 (18 components)

2-acetylaminofluorene N-nitrosodibutylamine
4-aminobiphenyl N-nitrosodiethylamine
p-dimethylaminoazobenzene N-nitrosomethylethylamine
3,3'-dimethylbenzidine N-nitrosomorpholine
 α,α' -dimethylphenethylamine N-nitrosopiperidine
(free base) N-nitrosopyrrolidine
methapyrilene (free base) 1,4-phenylenediamine
1-naphthylamine 2-picoline
2-naphthylamine *o*-toluidine
5-nitro-*o*-toluidine

2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31625	31625-510	—
w/data pack		
31625-500	31625-520	31725

Appendix IX Mix #2 (32 components)

acetophenone hexachloropropene
aramite isodrin
atrazine isosafrole (*cis* & *trans*)
benzaldehyde kepone
biphenyl 3-methylcholanthrene
caprolactam (epsilon) methyl methanesulfonate
chlorobenzilate 1,4-naphthoquinone
1-chloronaphthalene 4-nitroquinoline-N-oxide
diallate pentachlorobenzene
dibenz(a,j)acridine pentachloroethane
2,6-dichlorophenol pentachloronitrobenzene
7,12-dimethylbenz phenacetin
(a)anthracene pronamide
1,4-dioxane safrole
diphenyl ether 1,2,4,5-tetrachlorobenzene
ethyl methacrylate 1,3,5-trinitrobenzene
ethyl methanesulfonate

1,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31806	31806-510	—
w/data pack		
31806-500	31806-520	31906

Organophosphorous Pesticide

Mix, 8270/Appendix IX (9 components)

dimethoate parathion (ethyl parathion)
disulfoton phorate
famphur sulfotepp
methyl parathion zinophos (thionazine)
O,O,O-triethylphosphorothioate
2,000µg/mL in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
32419	32419-510	—
w/data pack		
32419-500	32419-520	32519

Organochlorine Pesticide

Mix AB # 3 (20 components)

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

2,000µg/mL each in hexane:toluene (1:1), 1mL/ampul

Each	5-pk.	10-pk.
32415	32415-510	—
w/data pack		
32415-500	32415-520	32515

200µg/mL each in hexane:toluene (1:1), 1mL/ampul

Each	5-pk.	10-pk.
32291	32291-510	—
w/data pack		
32291-500	32291-520	32391

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

Each	5-pk.	10-pk.
32292	32292-510	—
w/data pack		
32292-500	32292-520	32392

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Semivolatile Organic Reference Materials

SV Internal Standard Mix

acenaphthene-d10 naphthalene-d8
 chrysene-d12 perylene-d12
 1,4-dichlorobenzene-d4 phenanthrene-d10
 4,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31006	31006-510	—
w/data pack		
31006-500	31006-520	31106

2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31206	31206-510	—
w/data pack		
31206-500	31206-520	31306

B/N Surrogate Mix (4/89 SOW)

2-fluorobiphenyl p-terphenyl-d14
 nitrobenzene-d5
 1,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31024	31024-510	—
w/data pack		
31024-500	31024-520	31124

5,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31062	31062-510	—
w/data pack		
31062-500	31062-520	31162

5,000µg/mL each in methylene chloride, 5mL/ampul

Each	5-pk.	10-pk.
31086	31086-510	—
w/data pack		
31086-500	31086-520	31186

Acid Surrogate Mix (4/89 SOW)

2-fluorophenol 2,4,6-tribromophenol
 phenol-d6
 2,000µg/mL each in methanol, 1mL/ampul

Each	5-pk.	10-pk.
31025	31025-510	—
w/data pack		
31025-500	31025-520	31125

10,000µg/mL each in methanol, 1mL/ampul

Each	5-pk.	10-pk.
31063	31063-510	—
w/data pack		
31063-500	31063-520	31163

10,000µg/mL each in methanol, 5mL/ampul

Each	5-pk.	10-pk.
31087	31087-510	—
w/data pack		
31087-500	31087-520	31187

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

Each	5-pk.	10-pk.
31004	31004-510	—
w/data pack		
31004-500	31004-520	31104

5,000µg/mL each in methanol, 1mL/ampul

Each	5-pk.	10-pk.
31074	31074-510	—
w/data pack		
31074-500	31074-520	31174

5,000µg/mL each in methanol, 5mL/ampul

Each	5-pk.	10-pk.
31084	31084-510	—
w/data pack		
31084-500	31084-520	31184

Acid Matrix Spike Mix

4-chloro-3-methylphenol pentachlorophenol
 2-chlorophenol phenol
 4-nitrophenol
 2,000µg/mL each in methanol, 1mL/ampul

Each	5-pk.	10-pk.
31014	31014-510	—
w/data pack		
31014-500	31014-520	31114

10,000µg/mL each in methanol, 1mL/ampul

Each	5-pk.	10-pk.
31061	31061-510	—
w/data pack		
31061-500	31061-520	31161

10,000µg/mL each in methanol, 5mL/ampul

Each	5-pk.	10-pk.
31071	31071-510	—
w/data pack		
31071-500	31071-520	31171

SV System Performance Check Mix (SPCC) (4 components)

2,4-dinitrophenol 4-nitrophenol
 hexachlorocyclopentadiene N-nitroso-di-n-propylamine
 2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31689	31689-510	—
w/data pack		
31689-500	31689-520	31789

8270 B/N Calibration Check Mix

(7 components)
 acenaphthene diphenylamine
 benzo(a)pyrene fluoranthene
 1,4-dichlorobenzene hexachlorobutadiene
 di-n-octyl phthalate
 2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31616	31616-510	—
w/data pack		
31616-500	31616-520	31716

8270 Acid Calibration Check Mix

4-chloro-3-methylphenol pentachlorophenol
 2,4-dichlorophenol phenol
 2-nitrophenol 2,4,6-trichlorophenol
 2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31617	31617-510	—
w/data pack		
31617-500	31617-520	31717

SV Tuning Compound

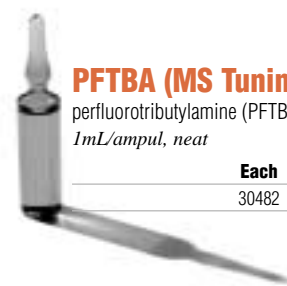
decafluorotriphenylphosphine (DFTPP)
 2,500µg/mL in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31001	31001-510	—
w/data pack		
31001-500	31001-520	31101

GC/MS Tuning Mixture

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

Each	5-pk.	10-pk.
31615	31615-510	—
w/data pack		
31615-500	31615-520	31715



PFTBA (MS Tuning Compound)

perfluorotributylamine (PFTBA)
 1mL/ampul, neat

Each
30482

8270/Appendix IX MegaMix™ Kit

- 128 compounds in 4 stable mixes.
- Includes Benzidines Calibration Mix
- Includes all commonly analyzed Appendix IX compounds.

Semivolatile Organic Reference Materials

8270 Calibration Mix #1 (19 components)

benzoic acid	3-methylphenol
4-chloro-3-methylphenol	4-methylphenol
2-chlorophenol	2-nitrophenol
2,4-dichlorophenol	4-nitrophenol
2,6-dichlorophenol	pentachlorophenol
2,4-dimethylphenol	phenol
4,6-dinitro-2-methylphenol	2,3,4,6-tetrachlorophenol
2,4-dinitrophenol	2,4,5-trichlorophenol
dinoseb	2,4,6-trichlorophenol
2-methylphenol	

2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31618	31618-510	—
w/data pack		
31618-500	31618-520	31718

8270 Calibration Mix #2 (11 components)

aniline	3-nitroaniline
benzidine	4-nitroaniline
4-chloroaniline	N-nitrosodimethylamine
3,3'-dichlorobenzidine	N-nitrosodi- <i>n</i> -propylamine
diphenylamine*	pyridine
2-nitroaniline	

2,000µg/mL each in methylene chloride:methanol (85:15), 1mL/ampul

Each	5-pk.	10-pk.
31619	31619-510	—
w/data pack		
31619-500	31619-520	31719

*N-nitrosodiphenylamine (listed compound) decomposes to diphenylamine (mix component) in the injector.

8270 Calibration Mix #3 (23 components)

aramite	hexachlorobenzene
bis(2-chloroethyl)ether	hexachlorobutadiene
bis(2-chloroethoxy)methane	hexachlorocyclopentadiene
bis(2-chloroisopropyl)ether	hexachloroethane
4-bromophenyl phenyl ether	hexachloropropene
chlorobenzilate	isodrin
2-chloronaphthalene	kepone
4-chlorophenyl phenyl ether	pentachlorobenzene
1,2-dichlorobenzene	pentachloronitrobenzene
1,3-dichlorobenzene	1,2,4,5-tetrachlorobenzene
1,4-dichlorobenzene	1,2,4-trichlorobenzene
1,3-dinitrobenzene	

2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31620	31620-510	—
w/data pack		
31620-500	31620-520	31720

Aramite Mix

Aramite
2,000µg/mL in hexane, 1mL/ampul

Each	5-pk.	10-pk.
31624	31624-510	—
w/data pack		
31624-500	31624-520	31724

8270 Calibration Mix #5 (19 components)

acenaphthene	fluoranthene
acenaphthylene	fluorene
anthracene	ideno(1,2,3-cd)pyrene
benzo(a)anthracene	3-methylcholanthrene
benzo(a)pyrene	1-methylnaphthalene
benzo(b)fluoranthene	2-methylnaphthalene
benzo(ghi)perylene	naphthalene
benzo(k)fluoranthene	phenanthrene
chrysene	pyrene
dibenz(a,h)anthracene	

2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31622	31622-510	—
w/data pack		
31622-500	31622-520	31722

8270 Calibration Mix #4 (23 components)

acetophenone	2,6-dinitrotoluene
azobenzene*	ethyl methanesulfonate
benzyl alcohol	isophorone
bis(2-ethylhexyl)phthalate	isosaflrole (<i>cis</i> & <i>trans</i>)
butyl benzyl phthalate	methyl methanesulfonate
dibenzofuran	1,4-naphthoquinone
diethyl phthalate	nitrobenzene
dimethyl phthalate	4-nitroquinoline-1-oxide
di- <i>n</i> -butyl phthalate	phenacetin
di- <i>n</i> -octyl phthalate	saflrole
2,4-dinitrotoluene	1,3,5-trinitrobenzene

2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31621	31621-510	—
w/data pack		
31621-500	31621-520	31721

*1,2-diphenylhydrazine (listed compound) decomposes to azobenzene (mix component) in the injector.

Kits

8270 Calibration Kit

31618: 8270 Calibration Mix #1
31619: 8270 Calibration Mix #2
31620: 8270 Calibration Mix #3
31621: 8270 Calibration Mix #4
31622: 8270 Calibration Mix #5

Contains 1mL each of these mixtures.

Kit	Kit w/Data Pack
31626	31626-500

8270/Appendix IX Kit

31686: 8270 MegaMix™
31030: Benzidine Mix, EPA 605
31625: Appendix IX Mix #1
31806: Appendix IX Mix #2

Contains 1mL each of these mixtures.

Kit	Kit w/Data Pack
31815	31815-500



Rtx®-5Sil MS Columns for Semivolatiles Analyses

- Silarylene stationary phase designed to provide low GC/MS bleed.
- Optimized for US EPA Method 8270 semivolatiles.
- Improved separation of benzo(b)- and benzo(k)fluoranthene.
- Available in 0.28mm ID for optimal semivolatiles analysis.
- Similar to DB-5MS, HP-5TH, BPX-5, MDN-5S columns.
- Available with Integra-Guard™ built-in guard column.

(Similar selectivity to Crossbond® 5% diphenyl/95% dimethyl polysiloxane)

ID	df (µm)	temp. limits	15-Meter	30-Meter
0.25mm	0.10	-60 to 330/350°C	12705	12708
	0.25	-60 to 330/350°C	12720	12723
	0.50	-60 to 330/350°C	12735	12738
0.28mm	1.00	-60 to 325/350°C	12750	12753
	0.25	-60 to 330/350°C	12790	12793
	0.50	-60 to 330/350°C	12791	12794
0.32mm	1.00	-60 to 325/350°C	12792	12795
	0.10	-60 to 330/350°C	12706	12709
	0.25	-60 to 330/350°C	12721	12724
0.53mm	0.50	-60 to 330/350°C	12736	12739
	1.00	-60 to 325/350°C	12751	12754
	1.00	-60 to 320/340°C	12737	12740
1.50	1.00	-60 to 320/340°C	12752	12755
	1.50	-60 to 310/330°C	12767	12770



Custom Reference Material Request Form

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email: standards@restekcorp.com

International Customers
Contact Your Local
Restek Representative.

Name: _____ **Date:** _____

Company/Location: _____

Phone #: _____ **FAX #:** _____

E-mail: _____

Take these eight steps to create the right solution:

1. Mixture Description: _____
2. Solvent: _____ **3. No. of components:** _____
4. Volume (select): 1mL, 2mL, 5mL, 10mL, or other mL _____
5. Quantity: No. of units _____

6. Select testing and documentation that best meets your requirements:

- Gravimetric Documentation: Lot Sheet detailing exact amount of each raw material used, purity of each material used, total volume prepared, calculated concentration and a unique lot number. Balance printout attached.
- Qualitative Documentation: Certificate of Composition, Chromatogram elution order, and Gravimetric Documentation.
- Quantitative Documentation: Certificate of Analysis and Data Pack.

7. Compound(s): (list or attach sheet)	Concentration:	8. Concentration Units
1.		<input type="radio"/> mg/mL <input type="radio"/> µg/mL <input type="radio"/> ng/mL <input type="radio"/> vol./vol.% <input type="radio"/> wt./wt.% <input type="radio"/> other _____
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		

ALL mixtures are produced in accordance with our ISO 9001 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.

on-line: <http://www.restekcorp.com/stdreq.htm>

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