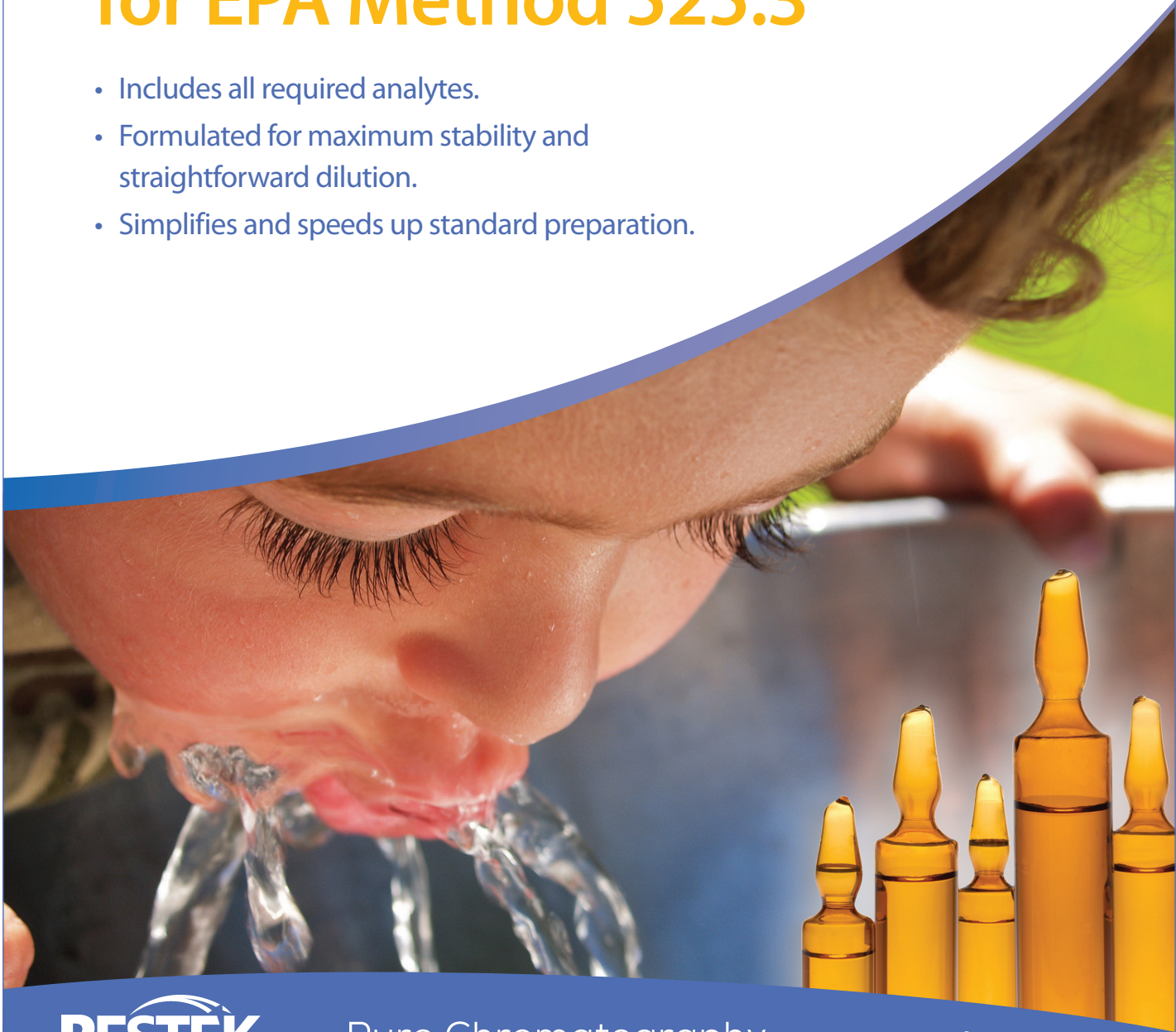


Certified Reference Materials



The First and Only Complete CRMs Formulated Specifically for EPA Method 525.3

- Includes all required analytes.
- Formulated for maximum stability and straightforward dilution.
- Simplifies and speeds up standard preparation.



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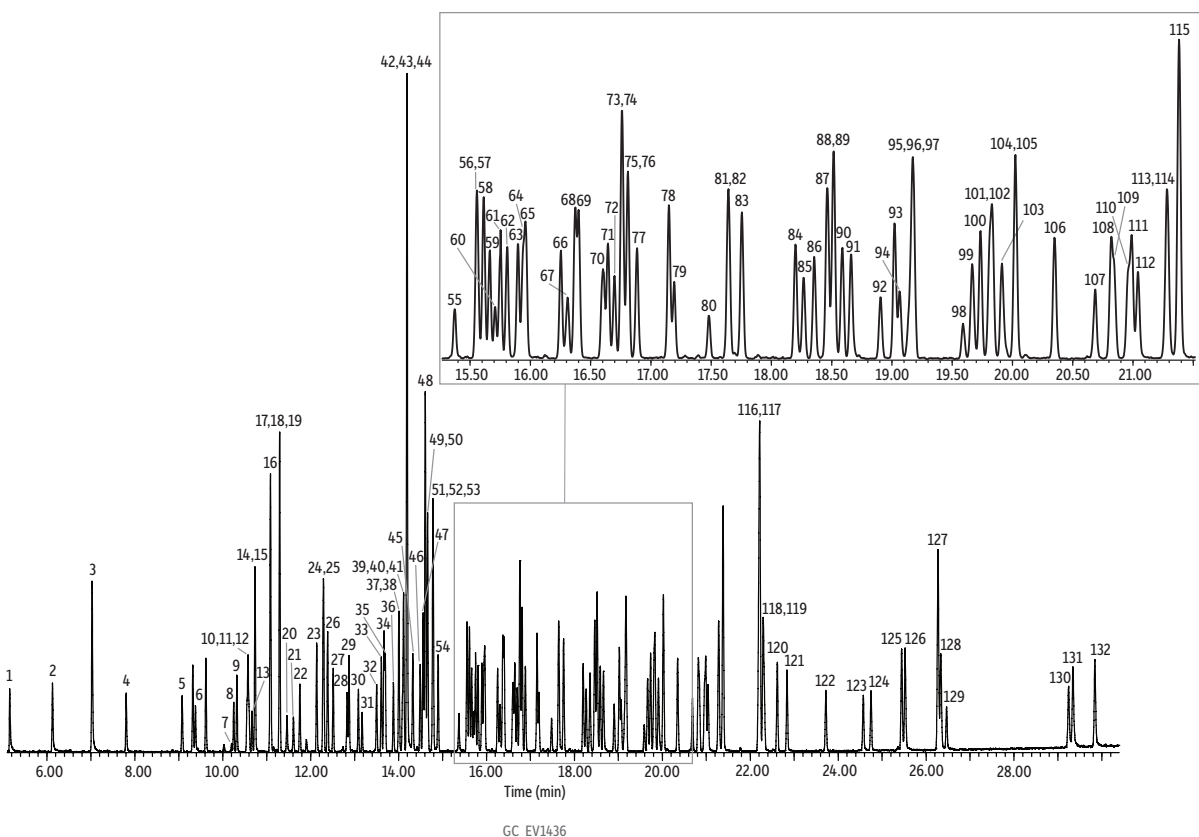
Running EPA Method 525.3?

Only Restek Offers a Complete Suite of Specifically Formulated Certified Reference Materials (CRMs)

- Includes all required analytes and no unnecessary compounds.
- Formulated to provide maximum stability in concentrations convenient for dilution.
- Simplifies and speeds up standard preparation.
- Quantitatively tested to confirm composition; detailed support documentation provided.
- Manufactured and QC-tested in Restek's ISO-accredited labs to satisfy your ISO requirements.
- Running the previous method? Restek also offers a complete set of CRMs for 525.2.

Streamline your 525.3 drinking water testing with our method-specific CRMs!

EPA Method 525.3 Full Analyte List on Rxi®-5SiI MS



(Continued from page 2.)

EPA Method 525.3 Full Analyte List on Rxi®-5Sil MS

| Peaks | t _R (min) | Peaks | t _R (min) | Column | |
|---|----------------------|---|----------------------|------------------|--|
| 1. Diisopropyl methylphosphonate (DIMP) | 5.16 | 78. Diphenamid | 17.15 | Sample | Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623) |
| 2. Isophorone | 6.13 | 79. MGK 264(a) | 17.19 | | EPA Method 525.3 OCP cal standard (cat.# 32542) |
| 3. 1,3-Dimethyl-2-nitrobenzene (SS) | 7.03 | 80. MGK 264(b) | 17.49 | | EPA Method 525.3 OPP cal standard (cat.# 32543) |
| 4. Dichlorvos | 7.80 | 81. Chlorfenvinphos | 17.64 | | EPA Method 525.3 ONP cal standard (cat.# 32544) |
| 5. Hexachlorocyclopentadiene (HCCPD) | 9.08 | 82. Heptachlor epoxide | 17.65 | | EPA Method 525.3 PAH cal standard (cat.# 32545) |
| 6. S-Ethyl dipropylthiocarbamate (EPTC) | 9.38 | 83. 2,3',4',5'-Tetrachlorobiphenyl | 17.76 | | EPA Method 525.3 PCB cal standard (cat.# 32546) |
| 7. Mevinphos I | 10.20 | 84. trans-Chlordane | 18.20 | | EPA Method 525.3 PAH IS mix (cat.# 32547) |
| 8. Mevinphos II | 10.25 | 85. Tetrachlorvinphos | 18.27 | | EPA Method 525.3 PCP IS (cat.# 32548) |
| 9. Butylate | 10.32 | 86. Butachlor | 18.35 | Diluent: | Ethyl acetate |
| 10. Vernolate | 10.55 | 87. Pyrene | 18.46 | Conc.: | 2 µg/mL (Pentachlorophenol concentration: 8 µg/mL) |
| 11. Dimethylphthalate | 10.58 | 88. cis-Chlordane | 18.51 | Injection | |
| 12. Etridiazole | 10.60 | 89. Endosulfan I | 18.52 | Inj. Vol.: | 1 µL pulsed splitless (hold 1 min) |
| 13. 2,6-Dinitrotoluene | 10.67 | 90. trans-Nonachlor | 18.59 | Liner: | Restek Premium 4 mm single taper w/wool (cat.# 23303.1) |
| 14. Pebulate | 10.73 | 91. Napropamide | 18.66 | Inj. Temp.: | 275 °C |
| 15. Acenaphthylene | 10.74 | 92. Profenofos | 18.90 | Pulse Pressure: | 30 psi (206.8kPa) |
| 16. Acenaphthene-D10 (IS) | 11.09 | 93. 4,4'-DDE | 19.02 | Pulse Time: | 1 min |
| 17. 2-Chlorobiphenyl | 11.29 | 94. Tribufos (+merphos) | 19.06 | Purge Flow: | 80 mL/min |
| 18. Butylated hydroxytoluene (BHT) | 11.30 | 95. Oxyfluorfen | 19.14 | Oven | |
| 19. Chloroneb | 11.30 | 96. Dieldrin | 19.16 | Oven Temp.: | 70 °C (hold 1 min) to 200 °C at 10 °C/min to 320 °C at 7 °C/min (hold 3 min) |
| 20. Tebutiuron | 11.46 | 97. 2,3,3',4',6-Pentachlorobiphenyl | 19.18 | Carrier Gas | He, constant flow |
| 21. 2,4-Dinitrotoluene | 11.61 | 98. Nitrofen | 19.59 | Flow Rate: | 1.2 mL/min |
| 22. Molinate | 11.75 | 99. Endrin | 19.67 | Detector | MS |
| 23. N,N-Diethyl-meta-toluamide (DEET) | 12.14 | 100. 2,2',3,4',5',6-Hexachlorobiphenyl | 19.74 | Mode: | Scan |
| 24. Diethylphthalate | 12.28 | 101. Chlorobenzilate | 19.81 | Scan Program: | |
| 25. 4-Chlorobiphenyl | 12.30 | 102. 2,3',4,4',5-Pentachlorobiphenyl | 19.83 | Group | 1 |
| 26. Fluorene | 12.39 | 103. Endosulfan II | 19.91 | Start Time | 5 |
| 27. Propachlor | 12.51 | 104. 4,4'-DDD | 20.02 | Scan Range | (amu) |
| 28. Ethoprop | 12.83 | 105. Ethion | 20.02 | | 45-550 |
| 29. Cycloate | 12.87 | 106. 2,2',4,4',5,5'-Hexachlorobiphenyl | 20.35 | Scan Rate | (scans/sec) |
| 30. Chlorpropham | 13.09 | 107. Norflurazon | 20.68 | | 5.5 |
| 31. Trifluralin | 13.17 | 108. Butylbenzylphthalate | 20.82 | Transfer Line | |
| 32. Phorate | 13.50 | 109. Endosulfan sulfate | 20.85 | Temp.: | 280 °C |
| 33. α-HCH | 13.61 | 110. 4,4'-DDT | 20.96 | Analyzer Type: | Quadrupole |
| 34. 2,4'-Dichlorobiphenyl | 13.67 | 111. 2,2',3,4,4',5'-Hexachlorobiphenyl | 20.99 | Source Type: | Extractor |
| 35. Hexachlorobenzene | 13.70 | 112. Hexazinone | 21.04 | Source Temp.: | 350 °C |
| 36. Atraton | 13.88 | 113. Tebuconazole | 21.27 | Quad Temp.: | 200 °C |
| 37. Prometon | 14.01 | 114. Di(2-ethylhexyl)adipate | 21.29 | Solvent Delay | |
| 38. Simazine | 14.02 | 115. Triphenyl phosphate (SS) | 21.38 | Time: | 5 min |
| 39. Dimethipin | 14.09 | 116. Benzo[a]anthracene | 22.19 | Tune Type: | DFTPP |
| 40. Atrazine | 14.11 | 117. Chrysene-D12 (IS) | 22.22 | Ionization Mode: | El |
| 41. β-HCH | 14.12 | 118. Chrysene | 22.30 | Instrument | Agilent 7890B GC & 5977A MSD |
| 42. Pentachlorophenol-C13 (IS) | 14.19 | 119. Methoxychlor | 22.32 | | |
| 43. Propazine | 14.19 | 120. 2,2',3,4,4',5,5'-Heptachlorobiphenyl | 22.62 | | |
| 44. Pentachlorophenol | 14.20 | 121. Di(2-ethylhexyl)phthalate | 22.84 | | |
| 45. γ-HCH (Lindane) | 14.33 | 122. Fenarimol | 23.72 | | |
| 46. Pronamide | 14.49 | 123. cis-Permethrin | 24.57 | | |
| 47. 2,2',5-Trichlorobiphenyl | 14.56 | 124. trans-Permethrin | 24.75 | | |
| 48. Phenanthrene-D10 (IS) | 14.61 | 125. Benzo[b]fluoranthene | 25.44 | | |
| 49. Phenanthrene | 14.66 | 126. Benzo[k]fluoranthene | 25.53 | | |
| 50. Chlorothalonil | 14.66 | 127. Benzo[a]pyrene-D12 (SS) | 26.27 | | |
| 51. Terbacil | 14.77 | 128. Benzo[a]pyrene | 26.33 | | |
| 52. Disulfoton | 14.78 | 129. Fluridone | 26.46 | | |
| 53. Anthracene | 14.79 | 130. Indeno[1,2,3-cd]pyrene | 29.24 | | |
| 54. δ-HCH | 14.90 | 131. Dibenzo[a,h]anthracene | 29.34 | | |
| 55. Phosphamidon | 15.37 | 132. Benzo[g,h,i]perylene | 29.84 | | |
| 56. Acetochlor | 15.55 | | | | |
| 57. Metribuzin | 15.56 | | | | |
| 58. 2,4,4'-Trichlorobiphenyl | 15.61 | | | | |
| 59. Vinclozolin | 15.66 | | | | |
| 60. Methyl parathion | 15.71 | | | | |
| 61. Alachlor | 15.75 | | | | |
| 62. Simetryn | 15.81 | | | | |
| 63. Ametryn | 15.90 | | | | |
| 64. Heptachlor | 15.94 | | | | |
| 65. Prometryn | 15.96 | | | | |
| 66. Terbutryn | 16.25 | | | | |
| 67. Bromacil | 16.31 | | | | |
| 68. 2,2',5,5'-Tetrachlorobiphenyl | 16.37 | | | | |
| 69. Dibutyl phthalate | 16.40 | | | | |
| 70. Metolachlor | 16.60 | | | | |
| 71. Chlorpyrifos | 16.64 | | | | |
| 72. Cyanazine | 16.70 | | | | |
| 73. Aldrin | 16.76 | | | | |
| 74. Dacthal (DCPA) | 16.77 | | | | |
| 75. 2,2',3,5'-Tetrachlorobiphenyl | 16.81 | | | | |
| 76. Ethyl parathion | 16.81 | | | | |
| 77. Triadimefon | 16.89 | | | | |



Ensure accurate, precise results with Restek® CRMs!

EPA Method 525.3 OCP Cal Standard (29 components)

| | |
|-------------------------------------|---|
| Acetochlor (34256-82-1) | Endrin (72-20-8) |
| Aldrin (309-00-2) | α -HCH (319-84-6) |
| <i>cis</i> -Chlordane (5103-71-9) | β -HCH (319-85-7) |
| <i>trans</i> -Chlordane (5103-74-2) | δ -HCH (319-86-8) |
| Chlorobenzilate (510-15-6) | γ -HCH (Lindane) (58-89-9) |
| Chloroneb (2675-77-6) | Heptachlor (76-44-8) |
| Chlorothalonil (1897-45-6) | Heptachlor epoxide (1024-57-3) |
| Dacthal (DCPA) (1861-32-1) | Hexachlorobenzene (118-74-1) |
| 4,4'-DDD (72-54-8) | Hexachlorocyclopentadiene (HCCPD) (77-47-4) |
| 4,4'-DDE (72-55-9) | Methoxychlor (72-43-5) |
| 4,4'-DDT (50-29-3) | <i>trans</i> -Nonachlor (39765-80-5) |
| Dieldrin (60-57-1) | Pentachlorophenol (87-86-5) |
| Endosulfan I (959-98-8) | <i>cis</i> -Permethrin (54774-45-7) |
| Endosulfan II (33213-65-9) | <i>trans</i> -Permethrin (51877-74-8) |
| Endosulfan sulfate (1031-07-8) | |

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32542 (ea.)

EPA Method 525.3 OPP Cal Standard (16 components)

| | |
|--|--------------------------------|
| Chlorfenvinphos (470-90-6) | Ethyl parathion (56-38-2) |
| Chlorpyrifos (2921-88-2) | Methyl parathion (298-00-0) |
| Dichlorvos (62-73-7) | Mevinphos (7786-34-7) |
| Diisopropyl methylphosphonate (DIMP) (1445-75-6) | Phorate (298-02-2) |
| Dimethipin (55290-64-7) | Phosphamidon (13171-21-6) |
| Disulfoton (298-04-4) | Profenofos (41198-08-7) |
| Ethion (563-12-2) | Tetrachlorvinphos (22248-79-9) |
| Ethoprop (13194-48-4) | Tribufos (78-48-8) |

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32543 (ea.)

EPA Method 525.3 ONP Cal Standard (44 components)

| | |
|---|--------------------------------------|
| Alachlor (15972-60-8) | Metribuzin (21087-64-9) |
| Ametryn (834-12-8) | MGK 264 (113-48-4) |
| Atraton (1610-17-9) | Molinat (2212-67-1) |
| Atrazine (1912-24-9) | Napropamide (15299-99-7) |
| Bromacil (314-40-9) | Nitrofen (1836-25-5) |
| Butachlor (23184-66-9) | Norflurazon (27314-13-2) |
| Butylate (2008-41-5) | Oxyfluorfen (42874-03-3) |
| Butylated hydroxytoluene (BHT) (128-37-0) | Pebulate (1114-71-2) |
| Chlorpropham (101-21-3) | Prometon (1610-18-0) |
| Cyanazine (21725-46-2) | Prometryn (7287-19-6) |
| Cycloate (1134-23-2) | Pronamide (propyzamide) (23950-58-5) |
| N,N-Diethyl-meta-toluamide (DEET) (134-62-3) | Propachlor (1918-16-7) |
| 2,4-Dinitrotoluene (121-14-2) | Propazine (139-40-2) |
| 2,6-Dinitrotoluene (606-20-2) | Simetryn (1014-70-6) |
| Diphenamid (957-51-7) | Simazine (122-34-9) |
| S-Ethyl dipropylthiocarbamate (EPTC) (759-94-4) | Tebuconazole (107534-96-3) |
| Etridiazole (2593-15-9) | Tebutiuron (34014-18-1) |
| Fenarimol (60168-88-9) | Terbacil (5902-51-2) |
| Fluridone (59756-60-4) | Terbutryn (886-50-0) |
| Hexazinone (51235-04-2) | Triadimefon (43121-43-3) |
| Metolachlor (51218-45-2) | Trifluralin (1582-09-8) |
| | Vernolate (1929-77-7) |
| | Vinclozolin (50471-44-8) |

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32544 (ea.)

Visit www.restek.com/525.3 for our easy-to-follow calibration standard dilution tables!

EPA Method 525.3 PAH Cal Standard (20 components)

| | |
|---------------------------------|--|
| Acenaphthylene (208-96-8) | Diethyl- <i>n</i> -phthalate (84-74-2) |
| Anthracene (120-12-7) | Di(2-ethylhexyl)adipate (103-23-1) |
| Benzo[a]anthracene (56-55-3) | Di(2-ethylhexyl)phthalate (117-81-7) |
| Benzo[a]pyrene (50-32-8) | Diethylphthalate (84-66-2) |
| Benzo[b]fluoranthene (205-99-2) | Dimethylphthalate (131-11-3) |
| Benzo[ghi]perylene (191-24-2) | Fluorene (86-73-7) |
| Benzo[k]fluoranthene (207-08-9) | Indeno[1,2,3-cd]pyrene (193-39-5) |
| Butylbenzylphthalate (85-68-7) | Isophorone (78-59-1) |
| Chrysene (218-01-9) | Phenanthrene (85-01-8) |
| Dibenz[a,h]anthracene (53-70-3) | Pyrene (129-00-0) |

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32545 (ea.)

EPA Method 525.3 PCB Cal Standard (14 components)



500 µg/mL each in acetone, 1 mL/ampul

cat.# 32546 (ea.)

| |
|---|
| 2-Chlorobiphenyl (PCB 1) (2051-60-7) |
| 4-Chlorobiphenyl (PCB 3) (2051-62-9) |
| 2,4'-Dichlorobiphenyl (PCB 8) (34883-43-7) |
| 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180) (35065-29-3) |
| 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138) (35065-28-2) |
| 2,2',3,4',5',6'-Hexachlorobiphenyl (PCB 149) (38380-04-0) |
| 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153) (35065-27-1) |
| 2,3,3',4',6-Pentachlorobiphenyl (PCB 110) (38380-03-9) |
| 2,3',4,4',5-Pentachlorobiphenyl (PCB 118) (31508-00-6) |
| 2,2',3,5'-Tetrachlorobiphenyl (PCB 44) (41464-39-5) |
| 2,2',5,5'-Tetrachlorobiphenyl (PCB 52) (35693-99-3) |
| 2,3',4',5-Tetrachlorobiphenyl (PCB 70) (32598-11-1) |
| 2,2',5-Trichlorobiphenyl (PCB 18) (37680-65-2) |
| 2,4,4'-Trichlorobiphenyl (PCB 28) (7012-37-5) |

EPA Method 525.3 PAH IS Mix (3 components)

| |
|-------------------------------|
| Acenaphthene-D10 (15067-26-2) |
| Chrysene-D12 (1719-03-5) |
| Phenanthrene-D10 (1517-22-2) |

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32547 (ea.)

EPA Method 525.3 PCP IS

Pentachlorophenol-¹³C₆ (85380-74-1)

1,000 µg/mL in methanol, 1 mL/ampul

cat.# 32548 (ea.)

EPA Method 525.3 Surrogate Standard (3 components)

| |
|---------------------------------------|
| Benzo[a]pyrene-D12 (63466-71-7) |
| 1,3-Dimethyl-2-nitrobenzene (81-20-9) |
| Triphenyl phosphate (115-86-6) |

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32549 (ea.)

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