

Procedura aperta per l'affidamento della fornitura, in diciassette lotti, di materiali d'uso e prodotti di consumo da laboratorio ambientale.

Rettifiche, chiarimenti e/o risposte a quesiti di interesse generale

01-12-2017

Quesito generico

Quesito	Chiarimento
Nei file di offerta è riportata la colonna "imballo massimo consentito". Chiediamo conferma che non si possa offrire un confezionamento superiore, anche se questo consenta di coprire il fabbisogno. Per esempio nella posizione 17 e 18 viene richiesto come conf. 500 ml. Il che vuol dire che potremmo offrire confezioni superiori del 100% (quindi 1 litro), che però supera il massimo consentito (che è sempre di 500 ml).	Si conferma che non possono essere offerte confezioni superiori all'imballo massimo consentito.

Lotto 3

Rif	Cod. SIGIA	Descrizione prodotto	Quesito	Chiarimento
89	1432	ACIDO NITRICO 65 - 70% ULTRAPURO PER ANALISI METALLI	Si chiede di specificare se le impurezze metalliche presenti nell'acido devono essere nell'ordine delle ppb o ppt	Le impurezze metalliche presenti nell'acido devono essere nell'ordine delle ppb

Lotto 11

Rif	Cod. SIGIA	Descrizione prodotto	Quesito	Chiarimento
2	9373	EN-1948 SAMPLING STANDARD SOLUTION U13C12 99% - IN FIALA - cod. CILEF4138 - o equivalente	E' considerato equivalente al prodotto indicato anche una soluzione che abbia la stessa composizione ma una concentrazione doppia?	Può andare bene anche uno standard a concentrazione doppia, purché abbia le stesse caratteristiche e lo stesso grado di purezza

22	13144	METHOD 1613 CALIBRATION SOLUTION CS1-CS5 SET	Essendo il prodotto richiesto un kit, quindi formato da più fiale, si chiedono chiarimenti sul volume del confezionamento. E' indicato 2ML come "Confezione richiesta", si devono considerare 2 ML a fiala?	A seguito di approfondimento è emerso una errata rappresentazione del fabbisogno annuo; pertanto tale prodotto <u>VIENE ELIMINATO DALL'ELENCO</u> e quindi non dovrà essere presentata offerta
25	13229	PCB CONGENER SET	E' possibile specificare la composizione del prodotto? Componenti? Concentrazione? Solvente?	Solvente isoottano; per composizione e concentrazione vedasi il certificato di analisi delle 5 mix sotto riportato
31	14604	PCB CONGENER SOLUTION 29-1 100MG/L IN ISOOCTANE	E' possibile specificare la composizione del prodotto?	Vedasi la composizione più sotto riportata
34	14871	MATERIALE DI RIFERIMENTO PER PCB/IPA (CONF. DA 1 ML) -- cod dr. Ehrenstorfer 2430A100A01 - o equivalente	E' possibile specificare la composizione del prodotto? Componenti? Concentrazione? Solvente?	A seguito di approfondimento è emerso che la descrizione e il codice di equivalenza sono incongruenti; pertanto tale prodotto <u>VIENE ELIMINATO DALL'ELENCO</u> e non deve essere presentata offerta.
41	15628	EXTRACTION STD FOR EN- 1948-2 (13C12, 99%) - cod. CILED4139 o equivalente	E' considerato equivalente al prodotto indicato anche una soluzione che abbia stessa composizione ma una concentrazione doppia?	Può andare bene anche uno standard a concentrazione doppia, purché abbia le stesse caratteristiche e lo stesso grado di purezza

LOTTO 11 Rlf. 25

CERTIFICATE OF ANALYSIS

Catalog No: M-16674-1001X

Expiration: On-going Stability

Description: PCB Congener Mix 1

Sample Size: 1 mL

Solvent: Varied conc. in isooctane

Component	CAS #	Purity % (GC/FID)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ¹ (µg/mL)
3-Chlorobiphenyl	2051-61-8	99.0	2.50	2.48
2,6-Dichlorobiphenyl	33146-45-1	99.0	2.50	2.48
2,5-Dichlorobiphenyl	34883-39-1	99.0	2.50	2.48
2,3'-Dichlorobiphenyl	25569-80-6	99.0	2.50	2.48
2,4'-Dichlorobiphenyl	34883-43-7	99.0	2.50	2.48
3,5-Dichlorobiphenyl	34883-41-5	99.9	2.50	2.50
3,3'-Dichlorobiphenyl	2050-67-1	99.2	2.50	2.48
2,4,6-Trichlorobiphenyl	35693-92-6	100	2.50	2.50
2,3',6'-Trichlorobiphenyl	38444-76-7	99.1	2.50	2.48
2,4',6'-Trichlorobiphenyl	38444-77-4	99.0	2.50	2.48
2',3,5-Trichlorobiphenyl	37680-68-5	99.0	2.50	2.48
2,3',5'-Trichlorobiphenyl	38444-81-4	99.0	2.50	2.48
2,4',5'-Trichlorobiphenyl	16606-02-3	100	2.50	2.50
2',3,4-Trichlorobiphenyl	38444-86-9	99.0	2.50	2.48
3,3',5'-Trichlorobiphenyl	38444-87-0	99.6	2.50	2.49
3,4,5-Trichlorobiphenyl	53555-66-1	99.0	2.50	2.48
3,3',4'-Trichlorobiphenyl	37680-69-6	100	2.50	2.50
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	100	5.02	5.02
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	99.9	5.03	5.02
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	99.0	5.01	4.96
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	99.0	5.03	4.98
2,4,4',6-Tetrachlorobiphenyl	32598-12-2	99.5	5.00	4.98
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	99.3	5.01	4.97
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	99.0	5.03	4.98
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	100	5.02	5.02
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	100	5.00	5.00
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	99.9	5.00	5.00
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	99.9	5.00	5.00
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	99.0	5.02	4.97
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	100	5.01	5.01
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	99.2	5.02	4.98
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	100	5.02	5.02
2,2',3,5',6-Pentachlorobiphenyl	38379-99-6	100	5.01	5.01
2,2',3,4,6-Pentachlorobiphenyl	55215-17-3	99.6	5.02	5.00
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	99.9	5.01	5.00
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	99.7	5.02	5.00

Component	CAS #	Purity % (GC/FID)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ¹ (µg/mL)
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	98.9	5.01	4.95
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	100	5.00	5.00
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	100	5.01	5.01
2,2',3,4,5'-Pentachlorobiphenyl	38380-02-8	99.5	5.04	5.01
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	99.0	5.02	4.97
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	99.0	5.04	4.99
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	99.7	5.04	5.02
2',3,4,5,5'-Pentachlorobiphenyl	70424-70-3	99.0	5.03	4.98
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	99.6	5.01	4.99
2',3,3',4,5-Pentachlorobiphenyl	76842-07-4	99.4	5.03	5.00
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	99.0	5.01	4.96
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	100	5.04	5.04
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	100	5.01	5.01
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	99.9	5.01	5.00
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	99.5	5.01	4.98
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	100	5.02	5.02
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	100	5.01	5.01
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	99.4	5.01	4.98
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	99.0	5.01	4.96
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	100	5.02	5.02
2,3,3',4,5',6-Hexachlorobiphenyl	74474-43-8	98.8	5.01	4.95
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	99.2	5.00	4.96
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	99.3	5.03	4.99
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	99.3	5.00	4.97
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	99.0	5.02	4.97
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	100	5.01	5.01
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	99.0	5.02	4.97
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	99.0	5.03	4.98
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	100	5.03	5.03
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	100	5.02	5.02
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	99.4	5.01	4.98
2,2',3,3',4,5',6-Heptachlorobiphenyl	40186-70-7	99.6	5.02	5.00
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	99.0	5.01	4.96
2,2',3,3',4',5,6-Heptachlorobiphenyl	52663-70-4	100	5.00	5.00
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	100	5.03	5.03
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	99.7	5.03	5.01
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	99.8	5.02	5.01
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	99.0	5.01	4.96
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	100	5.02	5.02
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	100	7.51	7.51
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	99.9	7.51	7.50
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	52663-73-7	100	7.50	7.50
2,2',3,3',4,5',6-Octachlorobiphenyl	68194-17-2	98.9	7.50	7.42
2,2',3,3',4,4',5',6-Octachlorobiphenyl	42740-50-1	99.3	7.50	7.45
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	100	7.50	7.50
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	100	7.51	7.51
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	100	7.51	7.51

CERTIFICATE OF ANALYSIS

DESCRIPTION: PCB Congener Mix 2

SOLVENT: Isooctane

SAMPLE SIZE: 1 mL

STORAGE CONDITION: Ambient

Component	Cas Number	Purity % (GC/MS)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ² (µg/mL)
2,4-Dichlorobiphenyl	33284-50-3	99.9	2.50	2.50
2,3-Dichlorobiphenyl	16605-91-7	98.7	2.50	2.47
1,4-Dichlorobiphenyl	2974-92-7	100	2.51	2.51
2,2,5-Trichlorobiphenyl	37680-65-2	99.5	2.50	2.49
2,3,6-Trichlorobiphenyl	55702-15-9	99.4	2.51	2.49
2,3,5-Trichlorobiphenyl	55720-44-0	99.0	2.50	2.48
2,4,4'-Trichlorobiphenyl	7012-37-5	99.7	2.51	2.50
2,3,4'-Trichlorobiphenyl	38444-85-8	99.0	2.51	2.48
3,4',5-Trichlorobiphenyl	38444-88-1	99.6	2.51	2.50
2,2',5,6'-Tetrachlorobiphenyl	41464-11-9	99.0	5.01	4.96
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	99.6	5.01	4.99
2,3',5,6'-Tetrachlorobiphenyl	74338-23-1	99.7	5.00	4.99
2,2',4,5'-Tetrachlorobiphenyl	70362-17-9	99.9	5.01	5.00
2,3,4,6-Tetrachlorobiphenyl	54230-22-7	99.0	5.00	4.95
2,3',4',6-Tetrachlorobiphenyl	41464-16-1	100	5.00	5.00
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	99.9	5.00	5.00
2,3,3',5'-Tetrachlorobiphenyl	41464-19-7	99.0	5.01	4.96
2,3,4,5'-Tetrachlorobiphenyl	33284-53-6	100	5.01	5.01
2,3,3',4'-Tetrachlorobiphenyl	74338-24-2	99.7	5.01	4.99
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	99.0	5.00	4.95
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	100	5.00	5.00
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	99.3	5.00	4.97
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	99.0	5.01	4.96
2,3',4',5',6-Pentachlorobiphenyl	56558-18-0	99.5	5.00	4.98
2,2',3,4',5-Pentachlorobiphenyl	68194-07-0	99.4	5.00	4.97
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	99.6	5.00	4.98
2,3,3',4',6-Pentachlorobiphenyl	74472-35-8	100	5.00	5.00
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	99.0	5.00	4.95
1,3,3',5,5'-Pentachlorobiphenyl	39635-32-0	100	5.01	5.01
2,3,3',4,5'-Pentachlorobiphenyl	70362-11-3	100	5.01	5.01
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	99.8	5.00	4.99
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	99.0	5.01	4.96
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	99.6	5.00	4.98
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	99.5	5.00	4.98
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	98.8	5.01	4.95
2,2',3,4',5,6'-Hexachlorobiphenyl	38380-04-0	99.5	5.01	4.98
2,2',3,4,4',6-Hexachlorobiphenyl	56030-56-9	99.4	5.00	4.97
2,2',3,3',4,6-Hexachlorobiphenyl	38380-05-1	99.9	5.01	5.00
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	99.0	5.00	4.95
2,3',4,4',5,6-Hexachlorobiphenyl	59291-65-5	98.8	5.01	4.95
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	99.7	5.00	4.99
2,3,3',4,5,6-Hexachlorobiphenyl	41411-62-5	99.7	5.01	4.99
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	99.7	5.00	4.99
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	100	5.00	5.00
2,3,3',4,4',5'-Hexachlorobiphenyl	69782-90-7	99.0	5.00	4.95
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	99.0	5.00	4.95
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	99.8	5.01	5.00
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	99.0	5.00	4.95
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	100	5.01	5.01
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	100	5.00	5.00
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	99.1	5.01	4.96
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	100	7.51	7.51
2,2',3,3',4,5,5',6-Octachlorobiphenyl	52663-75-9	100	7.50	7.50
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	100	7.51	7.51

CERTIFICATE OF ANALYSIS

DESCRIPTION: PCB Congener Mix 3

SAMPLE SIZE: 1 mL

SOLVENT: Isooctane

Component	Cas Number	Purity % (GC/FID)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ² (µg/mL)
3,4'-Dichlorobiphenyl	2974-90-5	99.0	2.50	2.48
2,2',4'-Trichlorobiphenyl	37680-66-3	99.0	2.50	2.48
1,4,5'-Trichlorobiphenyl	15862-07-4	99.0	2.51	2.48
2,3,3'-Trichlorobiphenyl	38444-84-7	99.0	2.50	2.48
2,2',3,6'-Tetrachlorobiphenyl	41464-17-5	99.4	5.01	4.98
2,3,5,6'-Tetrachlorobiphenyl	33284-54-7	100	5.01	5.01
2,3,3',6'-Tetrachlorobiphenyl	74472-33-6	98.5	5.01	4.93
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	99.1	5.01	4.96
2,3',4,5'-Tetrachlorobiphenyl	73557-53-8	100	5.00	5.00
2,3,4,5-Tetrachlorobiphenyl	70362-48-0	99.0	5.01	4.96
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	99.0	5.00	4.95
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	99.8	5.01	5.00
2,2',3,3',6-Pentachlorobiphenyl	52663-60-2	100	5.01	5.01
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	99.7	5.00	4.99
2,3,3',5,6-Pentachlorobiphenyl	74472-36-9	99.8	5.01	5.00
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	99.5	5.00	4.98
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	99.0	5.00	4.95
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	100	5.00	5.00
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	99.4	5.00	4.97
2,2',3,4',5,6'-Hexachlorobiphenyl	68194-13-8	99.7	5.00	4.99
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	99.6	5.01	4.99
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	98.9	5.00	4.95
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	99.0	5.01	4.96
2,3,3',4',5',6-Hexachlorobiphenyl	74472-45-0	99.7	5.00	4.99
2,3,3',4,4',6-Hexachlorobiphenyl	74472-42-7	100	5.00	5.00
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	99.4	5.01	4.98
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	100	5.01	5.01
2,2',3,3',4,5,6'-Heptachlorobiphenyl	68194-16-1	100	5.01	5.01
1,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	99.8	5.00	4.99

29 Components

CERTIFICATE OF ANALYSIS

CATALOG NO: M-1658-1-40 MIX

DESCRIPTION: PCB Congener Mix 4

SAMPLE SIZE: 1 mL

SOLVENT: Isooctane

Component	Cas Number	Purity % (GC/MS)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ² (µg/mL)
2,3',4-Trichlorobiphenyl	55712-37-3	100	2.507	2.507
2,3,4-Trichlorobiphenyl	55702-46-0	99.0	2.500	2.475
1,3',4,6-Tetrachlorobiphenyl	60233-24-1	99.9	5.002	4.997
1,2',4,4'-Tetrachlorobiphenyl	2437-79-8	100	5.008	5.008
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	99.4	5.000	4.970
2,3,4',6-Tetrachlorobiphenyl	52663-58-8	99.0	5.001	4.951
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	99.0	5.003	4.953
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	99.3	5.010	4.975
1,2',3',4,5-Pentachlorobiphenyl	41464-51-1	99.0	5.001	4.951
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	99.5	5.000	4.975
2',3,4,4',5-Pentachlorobiphenyl	65510-44-3	99.8	5.000	4.990
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	99.3	5.005	4.970
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	100	5.002	5.002
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	99.0	5.003	4.953
2,2',3,3',4,4',5,5'-Heptachlorobiphenyl	35065-29-3	100	5.000	5.000

15 Components

CERTIFICATE OF ANALYSIS

CATALAN C-24715-101X

DESCRIPTION: PCB Congener Mix 5

SAMPLE SIZE: 1 mL

SOLVENT: Isooctane

Component	Cas Number	Purity % (GC/MS)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ² (µg/mL)
2-Chlorobiphenyl	2051-60-7	99.6	2.51	2.50
4-Chlorobiphenyl	2051-62-9	98.8	2.50	2.47
2,2'-Dichlorobiphenyl	13029-08-8	100	2.51	2.51
3,3'-Dichlorobiphenyl	2050-68-2	100	2.51	2.51
2,2',6-Trichlorobiphenyl	38444-73-4	99.6	2.50	2.49
2,2',3-Trichlorobiphenyl	38444-78-9	99.4	2.51	2.49
3,4,4'-Trichlorobiphenyl	38444-90-5	99.7	2.50	2.49
2,2',6,6'-Tetrachlorobiphenyl	15968-05-3	99.4	5.00	4.97
2,2',3,5'-Tetrachlorobiphenyl	70362-16-8	99.9	5.01	5.00
1,2',3,5'-Tetrachlorobiphenyl	41464-39-5	99.0	5.01	4.96
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	100	5.00	5.00
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	99.0	5.01	4.96
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	100	5.01	5.01
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	99.1	5.00	4.96
2,2',3',4,6-Pentachlorobiphenyl	60233-25-2	99.3	5.01	4.97
2',3,4,5,6'-Pentachlorobiphenyl	74472-39-2	99.7	5.00	4.99
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	99.5	5.00	4.98
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	100	5.00	5.00
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	99.3	5.00	4.97
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	99.8	5.01	5.00
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	100	5.00	5.00
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	99.0	5.01	4.96
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	100	5.01	5.01
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-1	98.0	7.51	7.36
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	99.6	7.50	7.47
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	99.8	7.51	7.49
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	99.0	7.50	7.43
Decachlorobiphenyl	2051-24-3	99.7	7.51	7.49

28 Components

LOTTO 11 Rf. 31

Solvent:

Isooctane

Description:

PCB Congener Solution 29-1, 100 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
4,4'-trichlorobiphenyl (BZ# 28)	7012-37-5	99	516.4.2P	99.99 +/- 1.8	mg/L
2',5,5'-tetrachlorobiphenyl (BZ# 52)	35693-99-3	100	518.4.1P	101.1 +/- 1.75	mg/L
3',4,4'-tetrachlorobiphenyl (BZ# 77)	32598-13-3	99	538.4.1P	100.6 +/- 2.6	mg/L
4,4',5-tetrachlorobiphenyl (BZ# 81)	70362-50-4	99.8	657.5.5P	100 +/- 2.56	mg/L
2',3,5',6-pentachlorobiphenyl (BZ# 95)	38379-99-6	97.2	767.398.1P	99.14 +/- 2.51	mg/L
2',4,4',5-pentachlorobiphenyl (BZ# 99)	38380-01-7	99.6	771.5.2.4P	101 +/- 2.58	mg/L
2',4,5,5'-pentachlorobiphenyl (BZ# 101)	37680-73-2	99.5	520.4.2.4P	99.99 +/- 1.73	mg/L
1,3',4,4'-pentachlorobiphenyl (BZ# 105)	32598-14-4	98.8	521.4.2P	99 +/- 2.72	mg/L
1,3',4',6-pentachlorobiphenyl (BZ# 110)	38380-03-9	99.7	779.5.4.1P	101.9 +/- 2.58	mg/L
1,4,4',5-pentachlorobiphenyl (BZ# 114)	74472-37-0	99.5	522.4.1.2P	100.1 +/- 2.56	mg/L
1',4,4',5-pentachlorobiphenyl (BZ# 118)	31508-00-6	99	539.4.1.1P	100.2 +/- 2.6	mg/L
3,4,4',5-pentachlorobiphenyl (BZ# 123)	65510-44-3	99.7	658.257.1P	100.9 +/- 2.57	mg/L
1',4,4',5-pentachlorobiphenyl (BZ# 126)	57465-28-8	99	540.4.1P	100.6 +/- 1.43	mg/L
1',3,4,4',5'-hexachlorobiphenyl (BZ# 138)	35065-28-2	99	541.4.1P	100.4 +/- 2.6	mg/L
1',3,4',5,5'-hexachlorobiphenyl (BZ# 146)	51908-16-8	99.3	808.5.5P	101.3 +/- 2.76	mg/L
1',3,4',5',6-hexachlorobiphenyl (BZ# 149)	38380-04-0	100	811.5.4P	100 +/- 5.02	mg/L
1',3,5,5',6-hexachlorobiphenyl (BZ# 151)	52663-63-5	99.6	813.5.3.1P	100.4 +/- 2.75	mg/L
1',4,4',5,5'-hexachlorobiphenyl (BZ# 153)	35065-27-1	99	525.4.1P	99 +/- 1.79	mg/L
3',4,4',5-hexachlorobiphenyl (BZ# 156)	38380-08-4	99	659.4.1.2P	99.99 +/- 2.74	mg/L
3',4,4',5'-hexachlorobiphenyl (BZ# 157)	69782-90-7	99	654.4.1P	100.5 +/- 7.57	mg/L
1',4,4',5,5'-hexachlorobiphenyl (BZ# 167)	52663-72-6	98.5	655.3.2P	102 +/- 2.56	mg/L
1',4,4',5,5'-hexachlorobiphenyl (BZ# 169)	32774-16-6	99	660.5.5P	99.75 +/- 2.67	mg/L
1',3,3',4,4',5-heptachlorobiphenyl (BZ# 170)	35065-30-6	99	526.4.2P	101 +/- 2.75	mg/L
1',3,3',4',5,6-heptachlorobiphenyl (BZ# 177)	52663-70-4	100	833.5.2.5P	100.6 +/- 2.76	mg/L
2',3,4,4',5,5'-heptachlorobiphenyl (BZ# 180)	35065-29-3	99	527.4.2P	101.6 +/- 2.76	mg/L
2',3,4,4',5',6-heptachlorobiphenyl (BZ# 183)	52663-69-1	99	664.257.1.1P	101.4 +/- 2.76	mg/L
2',3,4',5,5',6-heptachlorobiphenyl (BZ# 187)	52663-68-0	98.8	542.4.2P	100.8 +/- 2.56	mg/L
1,3',4,4',5,5'-heptachlorobiphenyl (BZ# 189)	39635-31-9	100	656.5.4P	99.2 +/- 2.6	mg/L
1',3,3',4,4'-hexachlorobiphenyl (BZ# 128)	38380-07-3	99	523.4.1P	100.2 +/- 1.59	mg/L