

**MODIFIED JIS PCB ALT A EXTENDED calibration solutions CS1H-CS5H  
(unlabelled)/13C12, 99%**

Art. ID CIL-EC-5360-A  
Unit 5 x 0,2 mL  
Deliverydetails De Minimis

Description

Chemical purity: 98%

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
CS1	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	[70362-50-4]	0,25	ng/mL		
CS1	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	[32598-13-3]	0,25	ng/mL		
CS1	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	[57465-28-8]	0,25	ng/mL		
CS1	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	[32774-16-6]	0,25	ng/mL		
CS1	2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	[65510-44-3]	0,25	ng/mL		
CS1	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	[31508-00-6]	0,5	ng/mL		
CS1	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	[32598-14-4]	0,5	ng/mL		
CS1	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	[74472-37-0]	0,25	ng/mL		
CS1	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	[52663-72-6]	0,25	ng/mL		
CS1	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	[38380-08-4]	0,5	ng/mL		
CS1	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	[69782-90-7]	0,25	ng/mL		
CS1	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	[39635-31-9]	0,25	ng/mL		
CS1	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	[35065-30-6]	0,25	ng/mL		
CS1	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	0,25	ng/mL		
CS1	3,4,4',5-Tetrachlorobiphenyl	[208461-24-9]	10	ng/mL		

	henyl (13C12,99%) (IUPA C# 81)			
CS1	3,3',4,4'-Tetrachlorobi phenyl (13C12,99%) (IUP AC #77)	[105600-23-5]	10	ng/mL
CS1	3,3',4,4',5-Pentachloro biphenyl (13C12,99%) (I UPAC #126)	[208263-65-4]	10	ng/mL
CS1	3,3',4,4',5,5'-Hexachlo robiphenyl (13C12,99%) (IUPAC #169)	[208263-70-1]	10	ng/mL
CS1	2',3,4,4',5-Pentachloro biphenyl (13C12,99%) (I UPAC #123)	[208263-64-3]	10	ng/mL
CS1	2,3',4,4',5-Pentachloro biphenyl (13C12,99%) (I UPAC #118)	[104130-40-7]	20	ng/mL
CS1	2,3,3',4,4'-Pentachloro biphenyl (13C12,99%) (I UPAC #105)	[208263-62-1]	20	ng/mL
CS1	2,3,4,4',5-Pentachlorob iphenyl (13C12,99%) (IU PAC #114)	[208263-63-2]	10	ng/mL
CS1	2,3',4,4',5,5'-Hexachlo robiphenyl (13C12,99%) (IUPAC #167)	[208263-69-8]	10	ng/mL
CS1	2,3,3',4,4',5-Hexachlor obiphenyl (13C12,99%) ( IUPAC #156)	[208263-68-7]	20	ng/mL
CS1	2,3,3',4,4',5'-Hexachlo robiphenyl (13C12,99%) (IUPAC #157)	[235416-30-5]	10	ng/mL
CS1	2,3,3',4,4',5,5'-Heptac hlorobiphenyl (13C12,99 %) (IUPAC #189)	[208263-73-4]	10	ng/mL
CS1	2,2',3,3',4,4',5-Heptac hlorobiphenyl (13C12,99 %) (IUPAC #170)	[35065-30-6]/un labelled	10	ng/mL

CS1	2,2',3,4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #180)	[208263-72-3]	10	ng/mL
CS1	2,3',4',5-Tetrachlorobiphenyl (13C12,99%) (IUPAC #70)	[208263-81-4]	10	ng/mL
CS1	2,3,3',5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #111)	[235416-29-2]	10	ng/mL
CS1	2,2',3,4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #138)	[208263-66-5]	10	ng/mL
CS1	2,2',3,3',5,5',6-Heptachlorobiphenyl (13C12,99%) (IUPAC #178)	[232919-67-4]	10	ng/mL
CS1	3,3',4,5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #79)	[41464-48-6]/unlabelled	10	ng/mL
CS2	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	[70362-50-4]	1	ng/mL
CS2	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	[32598-13-3]	1	ng/mL
CS2	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	[57465-28-8]	1	ng/mL
CS2	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	[32774-16-6]	1	ng/mL
CS2	2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	[65510-44-3]	1	ng/mL
CS2	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	[31508-00-6]	2	ng/mL
CS2	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	[32598-14-4]	2	ng/mL
CS2	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	[74472-37-0]	1	ng/mL
CS2	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	[52663-72-6]	1	ng/mL
CS2	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	[38380-08-4]	2	ng/mL

CS2	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	[69782-90-7]	1	ng/mL
CS2	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	[39635-31-9]	1	ng/mL
CS2	2,2',3,3',4,4',5'-Heptachlorobiphenyl (PCB 170)	[35065-30-6]	1	ng/mL
CS2	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	1	ng/mL
CS2	3,4,4',5-Tetrachlorobiphenyl (13C12,99%) (IUPAC # 81)	[208461-24-9]	10	ng/mL
CS2	3,3',4,4'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #77)	[105600-23-5]	10	ng/mL
CS2	3,3',4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #126)	[208263-65-4]	10	ng/mL
CS2	3,3',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #169)	[208263-70-1]	10	ng/mL
CS2	2',3,4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #123)	[208263-64-3]	10	ng/mL
CS2	2,3',4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #118)	[104130-40-7]	20	ng/mL
CS2	2,3,3',4,4'-Pentachlorobiphenyl (13C12,99%) (IUPAC #105)	[208263-62-1]	20	ng/mL
CS2	2,3,4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #114)	[208263-63-2]	10	ng/mL
CS2	2,3',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #167)	[208263-69-8]	10	ng/mL
CS2	2,3,3',4,4',5-Hexachlorobiphenyl (13C12,99%) (IUPAC #156)	[208263-68-7]	20	ng/mL

CS2	2,3,3',4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #157)	[235416-30-5]	10	ng/mL
CS2	2,3,3',4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #189)	[208263-73-4]	10	ng/mL
CS2	2,2',3,3',4,4',5-Heptachlorobiphenyl (13C12,99%) (IUPAC #170)	[35065-30-6]/unlabelled	10	ng/mL
CS2	2,2',3,4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #180)	[208263-72-3]	10	ng/mL
CS2	2,3',4',5-Tetrachlorobiphenyl (13C12,99%) (IUPAC #70)	[208263-81-4]	10	ng/mL
CS2	2,3,3',5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #111)	[235416-29-2]	10	ng/mL
CS2	2,2',3,4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #138)	[208263-66-5]	10	ng/mL
CS2	2,2',3,3',5,5',6-Heptachlorobiphenyl (13C12,99%) (IUPAC #178)	[232919-67-4]	10	ng/mL
CS2	3,3',4,5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #79)	[41464-48-6]/unlabelled	10	ng/mL
CS3	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	[70362-50-4]	5	ng/mL
CS3	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	[32598-13-3]	5	ng/mL
CS3	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	[57465-28-8]	5	ng/mL
CS3	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	[32774-16-6]	5	ng/mL
CS3	2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	[65510-44-3]	5	ng/mL
CS3	2,3',4,4',5-Pentachlorobiphenyl (PCB 123)	[31508-00-6]	10	ng/mL

	biphenyl (PCB 118)			
CS3	2,3,3',4,4'-Pentachloro	[32598-14-4]	10	ng/mL
	biphenyl (PCB 105)			
CS3	2,3,4,4',5-Pentachlorob	[74472-37-0]	5	ng/mL
	iphenyl (PCB 114)			
CS3	2,3',4,4',5,5'-Hexachlo	[52663-72-6]	5	ng/mL
	robiphenyl (PCB 167)			
CS3	2,3,3',4,4',5-Hexachlor	[38380-08-4]	10	ng/mL
	obiphenyl (PCB 156)			
CS3	2,3,3',4,4',5'-Hexachlo	[69782-90-7]	5	ng/mL
	robiphenyl (PCB 157)			
CS3	2,3,3',4,4',5,5'-Heptac	[39635-31-9]	5	ng/mL
	hlorobiphenyl (PCB 189)			
CS3	2,2',3,3',4,4',5-Heptac	[35065-30-6]	5	ng/mL
	hlorobiphenyl (PCB 170)			
CS3	2,2',3,4,4',5,5'-Heptac	[35065-29-3]	5	ng/mL
	hlorobiphenyl (PCB 180)			
CS3	3,4,4',5-Tetrachlorobip	[208461-24-9]	10	ng/mL
	henyl (13C12,99%) (IUPA C# 81)			
CS3	3,3',4,4'-Tetrachlorobi	[105600-23-5]	10	ng/mL
	phenyl (13C12,99%) (IUP AC #77)			
CS3	3,3',4,4',5-Pentachloro	[208263-65-4]	10	ng/mL
	biphenyl (13C12,99%) (I UPAC #126)			
CS3	3,3',4,4',5,5'-Hexachlo	[208263-70-1]	10	ng/mL
	robiphenyl (13C12,99%) (IUPAC #169)			
CS3	2',3,4,4',5-Pentachloro	[208263-64-3]	10	ng/mL
	biphenyl (13C12,99%) (I UPAC #123)			
CS3	2,3',4,4',5-Pentachloro	[104130-40-7]	20	ng/mL
	biphenyl (13C12,99%) (I UPAC #118)			
CS3	2,3,3',4,4'-Pentachloro	[208263-62-1]	20	ng/mL
	biphenyl (13C12,99%) (I UPAC #105)			

CS3	2,3,4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #114)	[208263-63-2]	10	ng/mL
CS3	2,3',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #167)	[208263-69-8]	10	ng/mL
CS3	2,3,3',4,4',5-Hexachlorobiphenyl (13C12,99%) (IUPAC #156)	[208263-68-7]	20	ng/mL
CS3	2,3,3',4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #157)	[235416-30-5]	10	ng/mL
CS3	2,3,3',4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #189)	[208263-73-4]	10	ng/mL
CS3	2,2',3,3',4,4',5-Heptachlorobiphenyl (13C12,99%) (IUPAC #170)	[35065-30-6]/unlabelled	10	ng/mL
CS3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #180)	[208263-72-3]	10	ng/mL
CS3	2,3',4,5-Tetrachlorobiphenyl (13C12,99%) (IUPAC #70)	[208263-81-4]	10	ng/mL
CS3	2,3,3',5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #111)	[235416-29-2]	10	ng/mL
CS3	2,2',3,4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #138)	[208263-66-5]	10	ng/mL
CS3	2,2',3,3',5,5',6-Heptachlorobiphenyl (13C12,99%) (IUPAC #178)	[232919-67-4]	10	ng/mL
CS3	3,3',4,5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #79)	[41464-48-6]/unlabelled	10	ng/mL
CS4	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	[70362-50-4]	100	ng/mL

CS4	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	[32598-13-3]	100	ng/mL
CS4	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	[57465-28-8]	100	ng/mL
CS4	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	[32774-16-6]	100	ng/mL
CS4	2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	[65510-44-3]	100	ng/mL
CS4	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	[31508-00-6]	200	ng/mL
CS4	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	[32598-14-4]	200	ng/mL
CS4	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	[74472-37-0]	100	ng/mL
CS4	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	[52663-72-6]	100	ng/mL
CS4	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	[38380-08-4]	200	ng/mL
CS4	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	[69782-90-7]	100	ng/mL
CS4	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	[39635-31-9]	100	ng/mL
CS4	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	[35065-30-6]	100	ng/mL
CS4	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	100	ng/mL
CS4	3,4,4',5-Tetrachlorobiphenyl (13C12,99%) (IUPAC # 81)	[208461-24-9]	10	ng/mL
CS4	3,3',4,4'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #77)	[105600-23-5]	10	ng/mL
CS4	3,3',4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #126)	[208263-65-4]	10	ng/mL
CS4	3,3',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #169)	[208263-70-1]	10	ng/mL



CS4	2,3,4,4',5-Pentachloro biphenyl (13C12,99%) (IUPAC #123)	[208263-64-3]	10	ng/mL
CS4	2,3',4,4',5-Pentachloro biphenyl (13C12,99%) (IUPAC #118)	[104130-40-7]	20	ng/mL
CS4	2,3,3',4,4'-Pentachloro biphenyl (13C12,99%) (IUPAC #105)	[208263-62-1]	20	ng/mL
CS4	2,3,4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #114)	[208263-63-2]	10	ng/mL
CS4	2,3',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #167)	[208263-69-8]	10	ng/mL
CS4	2,3,3',4,4',5-Hexachlorobiphenyl (13C12,99%) (IUPAC #156)	[208263-68-7]	20	ng/mL
CS4	2,3,3',4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #157)	[235416-30-5]	10	ng/mL
CS4	2,3,3',4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #189)	[208263-73-4]	10	ng/mL
CS4	2,2',3,3',4,4',5-Heptachlorobiphenyl (13C12,99%) (IUPAC #170)	[35065-30-6]/unlabelled	10	ng/mL
CS4	2,2',3,4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #180)	[208263-72-3]	10	ng/mL
CS4	2,3',4',5-Tetrachlorobiphenyl (13C12,99%) (IUPAC #70)	[208263-81-4]	10	ng/mL
CS4	2,3,3',5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #111)	[235416-29-2]	10	ng/mL
CS4	2,2',3,4,4',5'-Hexachlorobiphenyl (13C12,99%)	[208263-66-5]	10	ng/mL

(IUPAC #138)				
CS4	2,2',3,3',5,5',6-Heptachlorobiphenyl (13C12,99%) (IUPAC #178)	[232919-67-4]	10	ng/mL
CS4	3,3',4,5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #79)	[41464-48-6]/unlabelled	1	ng/mL
CS5	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	[70362-50-4]	20	ng/mL
CS5	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	[32598-13-3]	20	ng/mL
CS5	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	[57465-28-8]	20	ng/mL
CS5	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	[32774-16-6]	20	ng/mL
CS5	2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	[65510-44-3]	20	ng/mL
CS5	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	[31508-00-6]	40	ng/mL
CS5	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	[32598-14-4]	40	ng/mL
CS5	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	[74472-37-0]	20	ng/mL
CS5	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	[52663-72-6]	20	ng/mL
CS5	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	[38380-08-4]	40	ng/mL
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CS5	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	[39635-31-9]	20	ng/mL
CS5	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	[35065-30-6]	20	ng/mL
CS5	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	20	ng/mL
CS5	3,4,4',5-Tetrachlorobiphenyl (13C12,99%) (IUPAC # 81)	[208461-24-9]	10	ng/mL

CS5	3,3',4,4'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #77)	[105600-23-5]	10	ng/mL
CS5	3,3',4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #126)	[208263-65-4]	10	ng/mL
CS5	3,3',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #169)	[208263-70-1]	10	ng/mL
CS5	2',3,4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #123)	[208263-64-3]	10	ng/mL
CS5	2,3',4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #118)	[104130-40-7]	20	ng/mL
CS5	2,3,3',4,4'-Pentachlorobiphenyl (13C12,99%) (IUPAC #105)	[208263-62-1]	20	ng/mL
CS5	2,3,4,4',5-Pentachlorobiphenyl (13C12,99%) (IUPAC #114)	[208263-63-2]	10	ng/mL
CS5	2,3',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #167)	[208263-69-8]	10	ng/mL
CS5	2,3,3',4,4',5-Hexachlorobiphenyl (13C12,99%) (IUPAC #156)	[208263-68-7]	20	ng/mL
CS5	2,3,3',4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #157)	[235416-30-5]	10	ng/mL
CS5	2,3,3',4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #189)	[208263-73-4]	10	ng/mL
CS5	2,2',3,3',4,4',5-Heptachlorobiphenyl (13C12,99%) (IUPAC #170)	[35065-30-6]/unlabelled	10	ng/mL
CS5	2,2',3,4,4',5,5'-Heptachlorobiphenyl (13C12,99%)	[208263-72-3]	10	ng/mL

	%) (IUPAC #180)			
CS5	2,3',4',5'-Tetrachlorobi phenyl (13C12,99%) (IUP AC #70)	[208263-81-4]	10	ng/mL
CS5	2,3,3',5,5'-Pentachloro biphenyl (13C12,99%) (I UPAC #111)	[235416-29-2]	10	ng/mL
CS5	2,2',3,4,4',5'-Hexachlo robiphenyl (13C12,99%) (IUPAC #138)	[208263-66-5]	10	ng/mL
CS5	2,2',3,3',5,5',6-Heptac hlorobiphenyl (13C12,99 %) (IUPAC #178)	[232919-67-4]	10	ng/mL
CS5	3,3',4,5'-Tetrachlorobi phenyl (13C12,99%) (IUP AC #79)	[41464-48-6]/un labelled	10	ng/mL