

EN-1948-4 Marker PCB Calibration Series

Art. ID	CIL-EC-5385
Unit	6 x 0,2 mL
Deliverydetails	De Minimis UN1920 III E1

Description

Chemical purity: 98%

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Standard CS1, Native Compound, (IUPAC #28)	2,4,4'-Trichlorobiphenyl (PCB 28)	[7012-37-5]	0,1	ng/mL		
Standard CS1, Native Compound, (IUPAC #52)	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	[35693-99-3]	0,1	ng/mL		
Standard CS1, Native Compound, (IUPAC #101)	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	[37680-73-2]	0,1	ng/mL		
Standard CS1, Native Compound, (IUPAC #153)	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	[35065-27-1]	0,1	ng/mL		
Standard CS1, Native Compound, (IUPAC #138)	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	[35065-28-2]	0,1	ng/mL		
Standard CS1, Native Compound, (IUPAC #180)	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	0,1	ng/mL		
Standard CS1, 13C-Labelled Sampling Standard	2,3,4,4'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #60)	[n/a]	10	ng/mL		
Standard CS1, 13C-Labelled Sampling Standard	3,3',4,5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #127)	[n/a]	10	ng/mL		
Standard CS1, 13C-Labelled Sampling Standard	2,3,3',4,5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #159)	[n/a]	10	ng/mL		
Standard CS1, 13C-Labelled Extraction Standard	2,4,4'-Trichlorobiphenyl I (13C12,99%) (IUPAC #28)	[208263-76-7]	100	ng/mL		
Standard CS1, 13C-Labelled Extraction Standard	2,2',5,5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #52)	[208263-80-3]	100	ng/mL		
Standard CS1, 13C-Labelled Extraction Standard	2,2',4,5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #101)	[104130-39-4]	100	ng/mL		

	UPAC #101)				
Standard CS1, 13C-Label ed Extraction Standard	2,2',4,4',5,5'-Hexachlo robiphenyl (13C12,99%) (IUPAC #153)	[185376-58-3]	100		ng/mL
Standard CS1, 13C-Label ed Extraction Standard	2,2',3,4,4',5'-Hexachlo robiphenyl (13C12,99%) (IUPAC #138)	[208263-66-5]	100		ng/mL
Standard CS1, 13C-Label ed Extraction Standard	2,2',3,4,4',5,5'-Heptac hlorobiphenyl (13C12,99 %) (IUPAC #180)	[208263-72-3]	100		ng/mL
Standard CS1, 13C-Label ed Extraction Standard	2,3',4',5'-Tetrachlorobi phenyl (13C12,99%) (IUP AC #70)	[208263-81-4]	10		ng/mL
Standard CS1, 13C-Label ed Extraction Standard	2,3,3',5,5'-Pentachloro biphenyl (13C12,99%) (I UPAC #111)	[235416-29-2]	10		ng/mL
Standard CS1, 13C-Label ed Extraction Standard	2,2',3,3',4,4',5'-Heptac hlorobiphenyl (13C12,99 %) (IUPAC #170)	[35065-30-6]/un labelled	10		ng/mL
Standard CS2, Native Co mpound, (IUPAC #28)	2,4,4'-Trichlorobipheny l (PCB 28)	[7012-37-5]	1		ng/mL
Standard CS2, Native Co mpound, (IUPAC #52)	2,2',5,5'-Tetrachlorobi phenyl (PCB 52)	[35693-99-3]	1		ng/mL
Standard CS2, Native Co mpound, (IUPAC #101)	2,2',4,5,5'-Pentachloro biphenyl (PCB 101)	[37680-73-2]	1		ng/mL
Standard CS2, Native Co mpound, (IUPAC #153)	2,2',4,4',5,5'-Hexachlo robiphenyl (PCB 153)	[35065-27-1]	1		ng/mL
Standard CS2, Native Co mpound, (IUPAC #138)	2,2',3,4,4',5'-Hexachlo robiphenyl (PCB 138)	[35065-28-2]	1		ng/mL
Standard CS2, Native Co mpound, (IUPAC #180)	2,2',3,4,4',5,5'-Heptac hlorobiphenyl (PCB 180)	[35065-29-3]	1		ng/mL
Standard CS2, 13C-Label ed Sampling Standard	2,3,4,4'-Tetrachlorobip henyl (13C12,99%) (IUPA C #60)	[n/a]	10		ng/mL
Standard CS2, 13C-Label ed Sampling Standard	3,3',4,5,5'-Pentachloro biphenyl (13C12,99%) (I UPAC #127)	[n/a]	10		ng/mL
Standard CS2, 13C-Label	2,3,3',4,5,5'-Hexachlor	[n/a]	10		ng/mL

ed Sampling Standard	obiphenyl (13C12,99%) (IUPAC #159)			
Standard CS2, 13C-Label	2,4,4'-Trichlorobiphenyl (13C12,99%) (IUPAC #28)	[208263-76-7]	100	ng/mL
ed Extraction Standard	obiphenyl (13C12,99%) (IUPAC #28)			
Standard CS2, 13C-Label	2,2',5,5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #52)	[208263-80-3]	100	ng/mL
ed Extraction Standard	obiphenyl (13C12,99%) (IUPAC #52)			
Standard CS2, 13C-Label	2,2',4,5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #101)	[104130-39-4]	100	ng/mL
ed Extraction Standard	obiphenyl (13C12,99%) (IUPAC #101)			
Standard CS2, 13C-Label	2,2',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #153)	[185376-58-3]	100	ng/mL
ed Extraction Standard	obiphenyl (13C12,99%) (IUPAC #153)			
Standard CS2, 13C-Label	2,2',3,4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #138)	[208263-66-5]	100	ng/mL
ed Extraction Standard	obiphenyl (13C12,99%) (IUPAC #138)			
Standard CS2, 13C-Label	2,2',3,4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #180)	[208263-72-3]	100	ng/mL
ed Extraction Standard	obiphenyl (13C12,99%) (IUPAC #180)			
Standard CS2, 13C-Label	2,3',4',5-Tetrachlorobiphenyl (13C12,99%) (IUPAC #70)	[208263-81-4]	10	ng/mL
ed Extraction Standard	obiphenyl (13C12,99%) (IUPAC #70)			
Standard CS2, 13C-Label	2,3,3',5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #111)	[235416-29-2]	10	ng/mL
ed Extraction Standard	obiphenyl (13C12,99%) (IUPAC #111)			
Standard CS2, 13C-Label	2,2',3,3',4,4',5-Heptachlorobiphenyl (13C12,99%) (IUPAC #170)	[35065-30-6]/unlabelled	10	ng/mL
ed Extraction Standard	obiphenyl (13C12,99%) (IUPAC #170)			
Standard CS3, Native Compound, (IUPAC #28)	2,4,4'-Trichlorobiphenyl (PCB 28)	[7012-37-5]	10	ng/mL
Standard CS3, Native Compound, (IUPAC #52)	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	[35693-99-3]	10	ng/mL
Standard CS3, Native Compound, (IUPAC #101)	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	[37680-73-2]	10	ng/mL
Standard CS3, Native Compound, (IUPAC #153)	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	[35065-27-1]	10	ng/mL
Standard CS3, Native Compound	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	[35065-28-2]	10	ng/mL

Compound, (IUPAC #138)	robiphenyl (PCB 138)			
Standard CS3, Native Compound	2,2',3,4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #138)	[35065-29-3]	10	ng/mL
Compound, (IUPAC #180)	chlorobiphenyl (PCB 180)			
Standard CS3, 13C-Labelled Sampling Standard	2,3,4,4'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #60)	[n/a]	10	ng/mL
Standard CS3, 13C-Labelled Sampling Standard	3,3',4,5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #127)	[n/a]	10	ng/mL
Standard CS3, 13C-Labelled Sampling Standard	2,3,3',4,5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #159)	[n/a]	10	ng/mL
Standard CS3, 13C-Labelled Extraction Standard	2,4,4'-Trichlorobiphenyl (13C12,99%) (IUPAC #28)	[208263-76-7]	100	ng/mL
Standard CS3, 13C-Labelled Extraction Standard	2,2',5,5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #52)	[208263-80-3]	100	ng/mL
Standard CS3, 13C-Labelled Extraction Standard	2,2',4,5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #101)	[104130-39-4]	100	ng/mL
Standard CS3, 13C-Labelled Extraction Standard	2,2',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #153)	[185376-58-3]	100	ng/mL
Standard CS3, 13C-Labelled Extraction Standard	2,2',3,4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #138)	[208263-66-5]	100	ng/mL
Standard CS3, 13C-Labelled Extraction Standard	2,2',3,4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #180)	[208263-72-3]	100	ng/mL
Standard CS3, 13C-Labelled Extraction Standard	2,3',4',5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #70)	[208263-81-4]	10	ng/mL
Standard CS3, 13C-Labelled Extraction Standard	2,3,3',5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #111)	[235416-29-2]	10	ng/mL
Standard CS3, 13C-Labelled Extraction Standard	2,2',3,3',4,4',5-Heptachlorobiphenyl (13C12,99% labelled)	[35065-30-6]/unlabelled	10	ng/mL

	%) (IUPAC #170)				
Standard CS4, Native Compound, (IUPAC #28)	2,4,4'-Trichlorobiphenyl (PCB 28)	[7012-37-5]	100		ng/mL
Standard CS4, Native Compound, (IUPAC #52)	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	[35693-99-3]	100		ng/mL
Standard CS4, Native Compound, (IUPAC #101)	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	[37680-73-2]	100		ng/mL
Standard CS4, Native Compound, (IUPAC #153)	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	[35065-27-1]	100		ng/mL
Standard CS4, Native Compound, (IUPAC #138)	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	[35065-28-2]	100		ng/mL
Standard CS4, Native Compound, (IUPAC #180)	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	100		ng/mL
Standard CS4, 13C-Labelled Sampling Standard	2,3,4,4'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #60)	[n/a]	10		ng/mL
Standard CS4, 13C-Labelled Sampling Standard	3,3',4,5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #127)	[n/a]	10		ng/mL
Standard CS4, 13C-Labelled Sampling Standard	2,3,3',4,5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #159)	[n/a]	10		ng/mL
Standard CS4, 13C-Labelled Extraction Standard	2,4,4'-Trichlorobiphenyl I (13C12,99%) (IUPAC #28)	[208263-76-7]	100		ng/mL
Standard CS4, 13C-Labelled Extraction Standard	2,2',5,5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #52)	[208263-80-3]	100		ng/mL
Standard CS4, 13C-Labelled Extraction Standard	2,2',4,5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #101)	[104130-39-4]	100		ng/mL
Standard CS4, 13C-Labelled Extraction Standard	2,2',4,4',5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #153)	[185376-58-3]	100		ng/mL
Standard CS4, 13C-Labelled Extraction Standard	2,2',3,4,4',5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #138)	[208263-66-5]	100		ng/mL
Standard CS4, 13C-Labelled Extraction Standard	2,2',3,4,4',5,5'-Heptachlorobiphenyl (13C12,99%) (IUPAC #180)	[208263-72-3]	100		ng/mL

ed Extraction Standard	chlorobiphenyl (13C12,99%) (IUPAC #180)				
Standard CS4, 13C-Label	2,3',4',5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #70)	[208263-81-4]	10		ng/mL
ed Extraction Standard	2,3,3',5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #111)	[235416-29-2]	10		ng/mL
Standard CS4, 13C-Label	2,2',3,3',4,4',5-Heptachlorobiphenyl (13C12,99%) (IUPAC #170)	[35065-30-6]/unlabelled	10		ng/mL
ed Extraction Standard	2,4,4'-Trichlorobiphenyl (PCB 28)	[7012-37-5]	500		ng/mL
Standard CS5, Native Compound, (IUPAC #28)	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	[35693-99-3]	500		ng/mL
Standard CS5, Native Compound, (IUPAC #52)	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	[37680-73-2]	500		ng/mL
Standard CS5, Native Compound, (IUPAC #101)	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	[35065-27-1]	500		ng/mL
Standard CS5, Native Compound, (IUPAC #153)	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	[35065-28-2]	500		ng/mL
Standard CS5, Native Compound, (IUPAC #138)	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	500		ng/mL
Standard CS5, Native Compound, (IUPAC #180)	2,3,4,4'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #60)	[n/a]	10		ng/mL
Standard CS5, 13C-Label	3,3',4,5,5'-Pentachlorobiphenyl (13C12,99%) (IUPAC #127)	[n/a]	10		ng/mL
Standard CS5, 13C-Label	2,3,3',4,5,5'-Hexachlorobiphenyl (13C12,99%) (IUPAC #159)	[n/a]	10		ng/mL
Standard CS5, 13C-Label	2,4,4'-Trichlorobiphenyl (13C12,99%) (IUPAC #28)	[208263-76-7]	100		ng/mL
Standard CS5, 13C-Label	2,2',5,5'-Tetrachlorobiphenyl (13C12,99%) (IUPAC #52)	[208263-80-3]	100		ng/mL
Standard CS5, 13C-Label					

Standard CS5, 13C-Label ed Extraction Standard	2,2',4,5,5'-Pentachloro biphenyl (13C12,99%) (I UPAC #101)	[104130-39-4]	100	ng/mL
Standard CS5, 13C-Label ed Extraction Standard	2,2',4,4',5,5'-Hexachlo robiphenyl (13C12,99%) (IUPAC #153)	[185376-58-3]	100	ng/mL
Standard CS5, 13C-Label ed Extraction Standard	2,2',3,4,4',5'-Hexachlo robiphenyl (13C12,99%) (IUPAC #138)	[208263-66-5]	100	ng/mL
Standard CS5, 13C-Label ed Extraction Standard	2,2',3,4,4',5,5'-Heptac hlorobiphenyl (13C12,99 %) (IUPAC #180)	[208263-72-3]	100	ng/mL
Standard CS5, 13C-Label ed Extraction Standard	2,3',4',5'-Tetrachlorobi phenyl (13C12,99%) (IUP AC #70)	[208263-81-4]	10	ng/mL
Standard CS5, 13C-Label ed Extraction Standard	2,3,3',5,5'-Pentachloro biphenyl (13C12,99%) (I UPAC #111)	[235416-29-2]	10	ng/mL
Standard CS5, 13C-Label ed Extraction Standard	2,2',3,3',4,4',5'-Heptac hlorobiphenyl (13C12,99 %) (IUPAC #170)	[35065-30-6]/un labelled	10	ng/mL
Standard CS6, Native Co mpound, (IUPAC #28)	2,4,4'-Trichlorobipheny l (PCB 28)	[7012-37-5]	5000	ng/mL
Standard CS6, Native Co mpound, (IUPAC #52)	2,2',5,5'-Tetrachlorobi phenyl (PCB 52)	[35693-99-3]	5000	ng/mL
Standard CS6, Native Co mpound, (IUPAC #101)	2,2',4,5,5'-Pentachloro biphenyl (PCB 101)	[37680-73-2]	5000	ng/mL
Standard CS6, Native Co mpound, (IUPAC #153)	2,2',4,4',5,5'-Hexachlo robiphenyl (PCB 153)	[35065-27-1]	5000	ng/mL
Standard CS6, Native Co mpound, (IUPAC #138)	2,2',3,4,4',5'-Hexachlo robiphenyl (PCB 138)	[35065-28-2]	5000	ng/mL
Standard CS6, Native Co mpound, (IUPAC #180)	2,2',3,4,4',5,5'-Heptac hlorobiphenyl (PCB 180)	[35065-29-3]	5000	ng/mL
Standard CS6, 13C-Label ed Sampling Standard	2,3,4,4'-Tetrachlorobip henyl (13C12,99%) (IUPA C #60)	[n/a]	10	ng/mL
Standard CS6, 13C-Label ed Sampling Standard	3,3',4,5,5'-Pentachloro biphenyl (13C12,99%) (I	[n/a]	10	ng/mL

	UPAC #127)				
Standard CS6, 13C-Label ed Sampling Standard	2,3,3',4,5,5'-Hexachlor obiphenyl (13C12,99%) ([n/a]	10		ng/mL
	IUPAC #159)				
Standard CS6, 13C-Label ed Extraction Standard	2,4,4'-Trichlorobipheny I (13C12,99%) (IUPAC #2	[208263-76-7]	100		ng/mL
	8)				
Standard CS6, 13C-Label ed Extraction Standard	2,2',5,5'-Tetrachlorobi phenyl (13C12,99%) (IUP	[208263-80-3]	100		ng/mL
	AC #52)				
Standard CS6, 13C-Label ed Extraction Standard	2,2',4,5,5'-Pentachloro biphenyl (13C12,99%) (I	[104130-39-4]	100		ng/mL
	UPAC #101)				
Standard CS6, 13C-Label ed Extraction Standard	2,2',4,4',5,5'-Hexachlo robiphenyl (13C12,99%)	[185376-58-3]	100		ng/mL
	(IUPAC #153)				
Standard CS6, 13C-Label ed Extraction Standard	2,2',3,4,4',5'-Hexachlo robiphenyl (13C12,99%)	[208263-66-5]	100		ng/mL
	(IUPAC #138)				
Standard CS6, 13C-Label ed Extraction Standard	2,2',3,4,4',5,5'-Heptac hlorobiphenyl (13C12,99	[208263-72-3]	100		ng/mL
	%) (IUPAC #180)				
Standard CS6, 13C-Label ed Extraction Standard	2,3',4',5-Tetrachlorobi phenyl (13C12,99%) (IUP	[208263-81-4]	10		ng/mL
	AC #70)				
Standard CS6, 13C-Label ed Extraction Standard	2,3,3',5,5'-Pentachloro biphenyl (13C12,99%) (I	[235416-29-2]	10		ng/mL
	UPAC #111)				
Standard CS6, 13C-Label ed Extraction Standard	2,2',3,3',4,4',5-Heptac hlorobiphenyl (13C12,99	[35065-30-6]/un	10		ng/mL
	%) (IUPAC #170)				