

## **EN-1948 Calibration Solutions [CS1-CS5]**

Art. ID CIL-EDF-4947  
Unit 5 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
CS1	2,3,7,8-Tetrachlorodibe nzo-p-dioxin	[1746-01-6]	0,5	ng/mL		
CS1	2,3,7,8-Tetrachlorodibe nzofuran	[51207-31-9]	0,5	ng/mL		
CS1	1,2,3,7,8-Pentachlorodi benzo-p-dioxin	[40321-76-4]	2,5	ng/mL		
CS1	1,2,3,7,8-Pentachlorodi benzofuran	[57117-41-6]	2,5	ng/mL		
CS1	2,3,4,7,8-Pentachlorodi benzofuran	[57117-31-4]	2,5	ng/mL		
CS1	1,2,3,4,7,8-Hexachlorod ibenzo-p-dioxin	[39227-28-6]	2,5	ng/mL		
CS1	1,2,3,6,7,8-Hexachlorod ibenzo-p-dioxin	[57653-85-7]	2,5	ng/mL		
CS1	1,2,3,7,8,9-Hexachlorod ibenzo-p-dioxin	[19408-74-3]	2,5	ng/mL		
CS1	1,2,3,4,7,8-Hexachlorod ibenzofuran	[55684-94-1]	2,5	ng/mL		
CS1	1,2,3,6,7,8-Hexachlorod ibenzofuran	[57117-44-9]	2,5	ng/mL		
CS1	1,2,3,7,8,9-Hexachlorod ibenzofuran	[72918-21-9]	2,5	ng/mL		
CS1	2,3,4,6,7,8-Hexachlorod ibenzofuran	[60851-34-5]	2,5	ng/mL		
CS1	1,2,3,4,6,7,8-Heptachlo rodibenzo-p-dioxin	[35822-46-9]	2,5	ng/mL		
CS1	1,2,3,4,6,7,8-Heptachlo rodibenzofuran	[67562-39-4]	2,5	ng/mL		
CS1	1,2,3,4,7,8,9-Heptachlo	[55673-89-7]	2,5	ng/mL		

	rodibenzofuran			
CS1	1,2,3,4,6,7,8,9-Octachl	[3268-87-9]	5	ng/mL
	orodibenzo-p-dioxin			
CS1	Octachlorodibenzofuran	[39001-02-0]	5	ng/mL
CS1	1,2,3,4-Tetrachlorodibe	[114423-99-3]	100	ng/mL
	nzo-p-dioxin (13C12,99% )			
CS1	2,3,7,8-Tetrachlorodibe	[1746-01-6]/unl	100	ng/mL
	nzo-p-dioxin (13C12,99% ) abelled			
CS1	2,3,7,8-Tetrachlorodibe	[89059-46-1]	100	ng/mL
	nzofuran (13C12,99%)			
CS1	1,2,3,7,8-Pentachlorodi	[109719-79-1]	100	ng/mL
	benzo-p-dioxin (13C12,9 9%)			
CS1	1,2,3,7,8-Pentachlorodi	[109719-77-9]	100	ng/mL
	benzofuran (13C12,99%)			
CS1	2,3,4,7,8-Pentachlorodi	[116843-02-8]	100	ng/mL
	benzofuran (13C12,99%)			
CS1	1,2,3,4,7,8-Hexachlorod	[109719-80-4]	100	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
CS1	1,2,3,6,7,8-Hexachlorod	[109719-81-5]	100	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
CS1	1,2,3,7,8,9-Hexachlorod	[109719-82-6]	100	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
CS1	1,2,3,4,7,8-Hexachlorod	[114423-98-2]	100	ng/mL
	ibenzofuran (13C12,99%)			
CS1	1,2,3,6,7,8-Hexachlorod	[116843-03-9]	100	ng/mL
	ibenzofuran (13C12,99%)			
CS1	1,2,3,7,8,9-Hexachlorod	[116843-04-0]	100	ng/mL
	ibenzofuran (13C12,99%)			
CS1	2,3,4,6,7,8-Hexachlorod	[116843-05-1]	100	ng/mL
	ibenzofuran (13C12,99%)			
CS1	1,2,3,4,6,7,8-Heptachlo	[35822-46-9]/un	100	ng/mL
	rodibenzo-p-dioxin (13C labelled			

	12,99%)			
CS1	1,2,3,4,6,7,8-Heptachlorodibenzofuran (13C12,99%)	[109719-84-8]	100	ng/mL
CS1	1,2,3,4,7,8,9-Heptachlorodibenzofuran (13C12,99%)	[109719-94-0]	100	ng/mL
CS1	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (13C12,99%)	[114423-97-1]	200	ng/mL
CS1	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (13C12,99%)	[109719-78-0]	200	ng/mL
CS2	2,3,7,8-Tetrachlorodibenzo-p-dioxin	[1746-01-6]	2	ng/mL
CS2	2,3,7,8-Tetrachlorodibenzofuran	[51207-31-9]	2	ng/mL
CS2	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	[40321-76-4]	10	ng/mL
CS2	1,2,3,7,8-Pentachlorodibenzofuran	[57117-41-6]	10	ng/mL
CS2	2,3,4,7,8-Pentachlorodibenzofuran	[57117-31-4]	10	ng/mL
CS2	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	[39227-28-6]	10	ng/mL
CS2	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	[57653-85-7]	10	ng/mL
CS2	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	[19408-74-3]	10	ng/mL
CS2	1,2,3,4,7,8-Hexachlorodibenzofuran	[55684-94-1]	10	ng/mL
CS2	1,2,3,6,7,8-Hexachlorodibenzofuran	[57117-44-9]	10	ng/mL
CS2	1,2,3,7,8,9-Hexachlorodibenzofuran	[72918-21-9]	10	ng/mL
CS2	2,3,4,6,7,8-Hexachlorodibenzofuran	[60851-34-5]	10	ng/mL
CS2	1,2,3,4,6,7,8-Heptachlorodibenzofuran	[35822-46-9]	10	ng/mL

	rodibenzo-p-dioxin			
CS2	1,2,3,4,6,7,8-Heptachlo rodibenzofuran	[67562-39-4]	10	ng/mL
CS2	1,2,3,4,7,8,9-Heptachlo rodibenzofuran	[55673-89-7]	10	ng/mL
CS2	1,2,3,4,6,7,8,9-Octachl orodibenzo-p-dioxin	[3268-87-9]	20	ng/mL
CS2	Octachlorodibenzofuran	[39001-02-0]	20	ng/mL
CS2	1,2,3,4-Tetrachlorodibe nzo-p-dioxin (13C12,99% )	[114423-99-3]	100	ng/mL
CS2	2,3,7,8-Tetrachlorodibe nzo-p-dioxin (13C12,99% )	[1746-01-6]/unl abelled	100	ng/mL
CS2	2,3,7,8-Tetrachlorodibe nzofuran (13C12,99%)	[89059-46-1]	100	ng/mL
CS2	1,2,3,7,8-Pentachlorodi benzo-p-dioxin (13C12,9 9%)	[109719-79-1]	100	ng/mL
CS2	1,2,3,7,8-Pentachlorodi benzofuran (13C12,99%)	[109719-77-9]	100	ng/mL
CS2	2,3,4,7,8-Pentachlorodi benzofuran (13C12,99%)	[116843-02-8]	100	ng/mL
CS2	1,2,3,4,7,8-Hexachlorod ibenzo-p-dioxin (13C12, 99%)	[109719-80-4]	100	ng/mL
CS2	1,2,3,6,7,8-Hexachlorod ibenzo-p-dioxin (13C12, 99%)	[109719-81-5]	100	ng/mL
CS2	1,2,3,7,8,9-Hexachlorod ibenzo-p-dioxin (13C12, 99%)	[109719-82-6]	100	ng/mL
CS2	1,2,3,4,7,8-Hexachlorod ibenzofuran (13C12,99%)	[114423-98-2]	100	ng/mL
CS2	1,2,3,6,7,8-Hexachlorod ibenzofuran (13C12,99%)	[116843-03-9]	100	ng/mL
CS2	1,2,3,7,8,9-Hexachlorod ibenzofuran (13C12,99%)	[116843-04-0]	100	ng/mL

CS2	2,3,4,6,7,8-Hexachlorodibenzofuran (13C12,99%)	[116843-05-1]	100	ng/mL
CS2	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (13C12,99%)	[35822-46-9]/unlabelled	100	ng/mL
CS2	1,2,3,4,6,7,8-Heptachlorodibenzofuran (13C12,9%)	[109719-84-8]	100	ng/mL
CS2	1,2,3,4,7,8,9-Heptachlorodibenzofuran (13C12,9%)	[109719-94-0]	100	ng/mL
CS2	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (13C12,99%)	[114423-97-1]	200	ng/mL
CS2	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (13C12,99%)	[109719-78-0]	200	ng/mL
CS3	2,3,7,8-Tetrachlorodibenzo-p-dioxin	[1746-01-6]	10	ng/mL
CS3	2,3,7,8-Tetrachlorodibenzofuran	[51207-31-9]	10	ng/mL
CS3	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	[40321-76-4]	50	ng/mL
CS3	1,2,3,7,8-Pentachlorodibenzofuran	[57117-41-6]	50	ng/mL
CS3	2,3,4,7,8-Pentachlorodibenzofuran	[57117-31-4]	50	ng/mL
CS3	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	[39227-28-6]	50	ng/mL
CS3	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	[57653-85-7]	50	ng/mL
CS3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	[19408-74-3]	50	ng/mL
CS3	1,2,3,4,7,8-Hexachlorodibenzofuran	[55684-94-1]	50	ng/mL
CS3	1,2,3,6,7,8-Hexachlorodibenzofuran	[57117-44-9]	50	ng/mL
CS3	1,2,3,7,8,9-Hexachlorodibenzofuran	[72918-21-9]	50	ng/mL

	ibenzofuran			
CS3	2,3,4,6,7,8-Hexachlorod	[60851-34-5]	50	ng/mL
	ibenzofuran			
CS3	1,2,3,4,6,7,8-Heptachlo	[35822-46-9]	50	ng/mL
	rodibenzo-p-dioxin			
CS3	1,2,3,4,6,7,8-Heptachlo	[67562-39-4]	50	ng/mL
	rodibenzofuran			
CS3	1,2,3,4,7,8,9-Heptachlo	[55673-89-7]	50	ng/mL
	rodibenzofuran			
CS3	1,2,3,4,6,7,8,9-Octachl	[3268-87-9]	100	ng/mL
	orodibenzo-p-dioxin			
CS3	Octachlorodibenzofuran	[39001-02-0]	100	ng/mL
CS3	1,2,3,4-Tetrachlorodibe	[114423-99-3]	100	ng/mL
	nzo-p-dioxin (13C12,99% )			
CS3	2,3,7,8-Tetrachlorodibe	[1746-01-6]/unl	100	ng/mL
	nzo-p-dioxin (13C12,99% abelled )			
CS3	2,3,7,8-Tetrachlorodibe	[89059-46-1]	100	ng/mL
	nzofuran (13C12,99%)			
CS3	1,2,3,7,8-Pentachlorodi	[109719-79-1]	100	ng/mL
	benzo-p-dioxin (13C12,9 9%)			
CS3	1,2,3,7,8-Pentachlorodi	[109719-77-9]	100	ng/mL
	benzofuran (13C12,99%)			
CS3	2,3,4,7,8-Pentachlorodi	[116843-02-8]	100	ng/mL
	benzofuran (13C12,99%)			
CS3	1,2,3,4,7,8-Hexachlorod	[109719-80-4]	100	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
CS3	1,2,3,6,7,8-Hexachlorod	[109719-81-5]	100	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
CS3	1,2,3,7,8,9-Hexachlorod	[109719-82-6]	100	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
CS3	1,2,3,4,7,8-Hexachlorod	[114423-98-2]	100	ng/mL
	ibenzofuran (13C12,99%)			

CS3	1,2,3,6,7,8-Hexachlorod ibenzofuran (13C12,99%)	[116843-03-9]	100	ng/mL
CS3	1,2,3,7,8,9-Hexachlorod ibenzofuran (13C12,99%)	[116843-04-0]	100	ng/mL
CS3	2,3,4,6,7,8-Hexachlorod ibenzofuran (13C12,99%)	[116843-05-1]	100	ng/mL
CS3	1,2,3,4,6,7,8-Heptachlo rodibenzo-p-dioxin (13C 12,99%)	[35822-46-9]/un labelled	100	ng/mL
CS3	1,2,3,4,6,7,8-Heptachlo rodibenzofuran (13C12,9 9%)	[109719-84-8]	100	ng/mL
CS3	1,2,3,4,7,8,9-Heptachlo rodibenzofuran (13C12,9 9%)	[109719-94-0]	100	ng/mL
CS3	1,2,3,4,6,7,8,9-Octachl orodibenzo-p-dioxin (13 C12,99%)	[114423-97-1]	200	ng/mL
CS3	1,2,3,4,6,7,8,9-Octachl orodibenzofuran (13C12, 99%)	[109719-78-0]	200	ng/mL
CS4	2,3,7,8-Tetrachlorodibe nzo-p-dioxin	[1746-01-6]	40	ng/mL
CS4	2,3,7,8-Tetrachlorodibe nzofuran	[51207-31-9]	40	ng/mL
CS4	1,2,3,7,8-Pentachlorodi benzo-p-dioxin	[40321-76-4]	200	ng/mL
CS4	1,2,3,7,8-Pentachlorodi benzofuran	[57117-41-6]	200	ng/mL
CS4	2,3,4,7,8-Pentachlorodi benzofuran	[57117-31-4]	200	ng/mL
CS4	1,2,3,4,7,8-Hexachlorod ibenzo-p-dioxin	[39227-28-6]	200	ng/mL
CS4	1,2,3,6,7,8-Hexachlorod ibenzo-p-dioxin	[57653-85-7]	200	ng/mL
CS4	1,2,3,7,8,9-Hexachlorod ibenzo-p-dioxin	[19408-74-3]	200	ng/mL
CS4	1,2,3,4,7,8-Hexachlorod	[55684-94-1]	200	ng/mL

	ibenzofuran			
CS4	1,2,3,6,7,8-Hexachlorod	[57117-44-9]	200	ng/mL
	ibenzofuran			
CS4	1,2,3,7,8,9-Hexachlorod	[72918-21-9]	200	ng/mL
	ibenzofuran			
CS4	2,3,4,6,7,8-Hexachlorod	[60851-34-5]	200	ng/mL
	ibenzofuran			
CS4	1,2,3,4,6,7,8-Heptachlo	[35822-46-9]	200	ng/mL
	rodibenzo-p-dioxin			
CS4	1,2,3,4,6,7,8-Heptachlo	[67562-39-4]	200	ng/mL
	rodibenzofuran			
CS4	1,2,3,4,7,8,9-Heptachlo	[55673-89-7]	200	ng/mL
	rodibenzofuran			
CS4	1,2,3,4,6,7,8,9-Octachl	[3268-87-9]	400	ng/mL
	orodibenzo-p-dioxin			
CS4	Octachlorodibenzofuran	[39001-02-0]	400	ng/mL
CS4	1,2,3,4-Tetrachlorodibe	[114423-99-3]	100	ng/mL
	nzo-p-dioxin (13C12,99% )			
CS4	2,3,7,8-Tetrachlorodibe	[1746-01-6]/unl	100	ng/mL
	nzo-p-dioxin (13C12,99% ) abelled			
CS4	2,3,7,8-Tetrachlorodibe	[89059-46-1]	100	ng/mL
	nzo-furan (13C12,99%)			
CS4	1,2,3,7,8-Pentachlorodi	[109719-79-1]	100	ng/mL
	benzo-p-dioxin (13C12,9 9%)			
CS4	1,2,3,7,8-Pentachlorodi	[109719-77-9]	100	ng/mL
	benzofuran (13C12,99%)			
CS4	2,3,4,7,8-Pentachlorodi	[116843-02-8]	100	ng/mL
	benzofuran (13C12,99%)			
CS4	1,2,3,4,7,8-Hexachlorod	[109719-80-4]	100	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
CS4	1,2,3,6,7,8-Hexachlorod	[109719-81-5]	100	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
CS4	1,2,3,7,8,9-Hexachlorod	[109719-82-6]	100	ng/mL



	ibenzo-p-dioxin (13C12, 99%)			
CS4	1,2,3,4,7,8-Hexachlorod ibenzofuran (13C12,99%)	[114423-98-2]	100	ng/mL
CS4	1,2,3,6,7,8-Hexachlorod ibenzofuran (13C12,99%)	[116843-03-9]	100	ng/mL
CS4	1,2,3,7,8,9-Hexachlorod ibenzofuran (13C12,99%)	[116843-04-0]	100	ng/mL
CS4	2,3,4,6,7,8-Hexachlorod ibenzofuran (13C12,99%)	[116843-05-1]	100	ng/mL
CS4	1,2,3,4,6,7,8-Heptachlo rodibenzo-p-dioxin (13C 12,99%)	[35822-46-9]/un labelled	100	ng/mL
CS4	1,2,3,4,6,7,8-Heptachlo rodibenzofuran (13C12,9 9%)	[109719-84-8]	100	ng/mL
CS4	1,2,3,4,7,8,9-Heptachlo rodibenzofuran (13C12,9 9%)	[109719-94-0]	100	ng/mL
CS4	1,2,3,4,6,7,8,9-Octachl orodibenzo-p-dioxin (13 C12,99%)	[114423-97-1]	200	ng/mL
CS4	1,2,3,4,6,7,8,9-Octachl orodibenzofuran (13C12, 99%)	[109719-78-0]	200	ng/mL
CS5	2,3,7,8-Tetrachlorodibe nzo-p-dioxin	[1746-01-6]	200	ng/mL
CS5	2,3,7,8-Tetrachlorodibe nzofuran	[51207-31-9]	200	ng/mL
CS5	1,2,3,7,8-Pentachlorodi benzo-p-dioxin	[40321-76-4]	1000	ng/mL
CS5	1,2,3,7,8-Pentachlorodi benzofuran	[57117-41-6]	1000	ng/mL
CS5	2,3,4,7,8-Pentachlorodi benzofuran	[57117-31-4]	1000	ng/mL
CS5	1,2,3,4,7,8-Hexachlorod ibenzo-p-dioxin	[39227-28-6]	1000	ng/mL
CS5	1,2,3,6,7,8-Hexachlorod	[57653-85-7]	1000	ng/mL

	ibenzo-p-dioxin			
CS5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	[19408-74-3]	1000	ng/mL
CS5	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	[55684-94-1]	1000	ng/mL
CS5	1,2,3,6,7,8-Hexachlorodibenzofuran	[57117-44-9]	1000	ng/mL
CS5	1,2,3,7,8,9-Hexachlorodibenzofuran	[72918-21-9]	1000	ng/mL
CS5	2,3,4,6,7,8-Hexachlorodibenzofuran	[60851-34-5]	1000	ng/mL
CS5	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	[35822-46-9]	1000	ng/mL
CS5	1,2,3,4,6,7,8-Heptachlorodibenzofuran	[67562-39-4]	1000	ng/mL
CS5	1,2,3,4,7,8,9-Heptachlorodibenzofuran	[55673-89-7]	1000	ng/mL
CS5	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	[3268-87-9]	2000	ng/mL
CS5	Octachlorodibenzofuran	[39001-02-0]	2000	ng/mL
CS5	1,2,3,4-Tetrachlorodibenzo-p-dioxin (13C12,99%)	[114423-99-3]	100	ng/mL
CS5	2,3,7,8-Tetrachlorodibenzo-p-dioxin (13C12,99%)	[1746-01-6]/unlabeled	100	ng/mL
CS5	2,3,7,8-Tetrachlorodibenzofuran (13C12,99%)	[89059-46-1]	100	ng/mL
CS5	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (13C12,99%)	[109719-79-1]	100	ng/mL
CS5	1,2,3,7,8-Pentachlorodibenzofuran (13C12,99%)	[109719-77-9]	100	ng/mL
CS5	2,3,4,7,8-Pentachlorodibenzofuran (13C12,99%)	[116843-02-8]	100	ng/mL
CS5	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (13C12,99%)	[109719-80-4]	100	ng/mL

CS5	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (13C12, 99%)	[109719-81-5]	100	ng/mL
CS5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (13C12, 99%)	[109719-82-6]	100	ng/mL
CS5	1,2,3,4,7,8-Hexachlorodibenzofuran (13C12,99%)	[114423-98-2]	100	ng/mL
CS5	1,2,3,6,7,8-Hexachlorodibenzofuran (13C12,99%)	[116843-03-9]	100	ng/mL
CS5	1,2,3,7,8,9-Hexachlorodibenzofuran (13C12,99%)	[116843-04-0]	100	ng/mL
CS5	2,3,4,6,7,8-Hexachlorodibenzofuran (13C12,99%)	[116843-05-1]	100	ng/mL
CS5	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (13C12,99%)	[35822-46-9]/unlabelled	100	ng/mL
CS5	1,2,3,4,6,7,8-Heptachlorodibenzofuran (13C12,99%)	[109719-84-8]	100	ng/mL
CS5	1,2,3,4,7,8,9-Heptachlorodibenzofuran (13C12,99%)	[109719-94-0]	100	ng/mL
CS5	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (13C12,99%)	[114423-97-1]	200	ng/mL
CS5	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (13C12,99%)	[109719-78-0]	200	ng/mL