

## **JIS Dioxin/Furan Calibration Solution [ST1-ST5]**

Art. ID	CIL-EDF-5187
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
STD1	2,3,7,8-Tetrachlorodibe nzo-p-dioxin	[1746-01-6]	0,2	ng/mL		
STD1	1,2,3,7,8-Pentachlorodi benzo-p-dioxin	[40321-76-4]	0,2	ng/mL		
STD1	1,2,3,4,7,8-Hexachlorod ibenzo-p-dioxin	[39227-28-6]	0,4	ng/mL		
STD1	1,2,3,6,7,8-Hexachlorod ibenzo-p-dioxin	[57653-85-7]	0,4	ng/mL		
STD1	1,2,3,7,8,9-Hexachlorod ibenzo-p-dioxin	[19408-74-3]	0,4	ng/mL		
STD1	1,2,3,4,6,7,8-Heptachlo rodibenzo-p-dioxin	[35822-46-9]	0,4	ng/mL		
STD1	Octachlorodibenzo-p-dio xin	[3268-87-9]	1	ng/mL		
STD1	2,3,7,8-Tetrachlorodibe nzofuran	[51207-31-9]	0,2	ng/mL		
STD1	1,2,3,7,8-Pentachlorodi benzofuran	[57117-41-6]	0,2	ng/mL		
STD1	2,3,4,7,8-Pentachlorodi benzofuran	[57117-31-4]	0,2	ng/mL		
STD1	1,2,3,4,7,8-Hexachlorod ibenzofuran	[55684-94-1]	0,4	ng/mL		
STD1	1,2,3,6,7,8-Hexachlorod ibenzofuran	[57117-44-9]	0,4	ng/mL		
STD1	1,2,3,7,8,9-Hexachlorod ibenzofuran	[72918-21-9]	0,4	ng/mL		
STD1	2,3,4,6,7,8-Hexachlorod ibenzofuran	[60851-34-5]	0,4	ng/mL		
STD1	1,2,3,4,6,7,8-Heptachlo	[67562-39-4]	0,4	ng/mL		

	rodibenzofuran			
STD1	1,2,3,4,7,8,9-Heptachlo	[55673-89-7]	0,4	ng/mL
	rodibenzofuran			
STD1	Octachlorodibenzofuran	[39001-02-0]	1	ng/mL
STD1	2,3,7,8-Tetrachlorodibe	[1746-01-6]/unl	10	ng/mL
	nzo-p-dioxin (13C12,99% ) abelled			
STD1	1,2,3,7,8-Pentachlorodi	[109719-79-1]	10	ng/mL
	benzo-p-dioxin (13C12,9 9%)			
STD1	1,2,3,4,7,8-Hexachlorod	[109719-80-4]	10	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
STD1	1,2,3,6,7,8-Hexachlorod	[109719-81-5]	10	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
STD1	1,2,3,7,8,9-Hexachlorod	[109719-82-6]	10	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
STD1	1,2,3,4,6,7,8-Heptachlo	[35822-46-9]/un	10	ng/mL
	rodibenzo-p-dioxin (13C 12,99%) labelled			
STD1	1,2,3,4,6,7,8,9-Octachl	[114423-97-1]	20	ng/mL
	orodibenzo-p-dioxin (13 C12,99%)			
STD1	2,3,7,8-Tetrachlorodibe	[89059-46-1]	10	ng/mL
	nzofuran (13C12,99%)			
STD1	1,2,3,7,8-Pentachlorodi	[109719-77-9]	10	ng/mL
	benzofuran (13C12,99%)			
STD1	2,3,4,7,8-Pentachlorodi	[116843-02-8]	10	ng/mL
	benzofuran (13C12,99%)			
STD1	1,2,3,4,7,8-Hexachlorod	[114423-98-2]	10	ng/mL
	ibenzo-furan (13C12,99%)			
STD1	1,2,3,6,7,8-Hexachlorod	[116843-03-9]	10	ng/mL
	ibenzo-furan (13C12,99%)			
STD1	1,2,3,7,8,9-Hexachlorod	[116843-04-0]	10	ng/mL
	ibenzo-furan (13C12,99%)			
STD1	2,3,4,6,7,8-Hexachlorod	[116843-05-1]	10	ng/mL

	ibenzofuran (13C12,99%)			
STD1	1,2,3,4,6,7,8-Heptachlorodibenzofuran (13C12,99%)	[109719-84-8]	10	ng/mL
STD1	1,2,3,4,7,8,9-Heptachlorodibenzofuran (13C12,99%)	[109719-94-0]	10	ng/mL
STD1	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (13C12,99%)	[109719-78-0]	20	ng/mL
STD2	2,3,7,8-Tetrachlorodibenzo-p-dioxin	[1746-01-6]	1	ng/mL
STD2	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	[40321-76-4]	1	ng/mL
STD2	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	[39227-28-6]	2	ng/mL
STD2	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	[57653-85-7]	2	ng/mL
STD2	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	[19408-74-3]	2	ng/mL
STD2	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	[35822-46-9]	2	ng/mL
STD2	Octachlorodibenzo-p-dioxin	[3268-87-9]	5	ng/mL
STD2	2,3,7,8-Tetrachlorodibenzofuran	[51207-31-9]	1	ng/mL
STD2	1,2,3,7,8-Pentachlorodibenzofuran	[57117-41-6]	1	ng/mL
STD2	2,3,4,7,8-Pentachlorodibenzofuran	[57117-31-4]	1	ng/mL
STD2	1,2,3,4,7,8-Hexachlorodibenzofuran	[55684-94-1]	2	ng/mL
STD2	1,2,3,6,7,8-Hexachlorodibenzofuran	[57117-44-9]	2	ng/mL
STD2	1,2,3,7,8,9-Hexachlorodibenzofuran	[72918-21-9]	2	ng/mL
STD2	2,3,4,6,7,8-Hexachlorodibenzofuran	[60851-34-5]	2	ng/mL

STD2	1,2,3,4,6,7,8-Heptachlorodibenzofuran	[67562-39-4]	2	ng/mL
STD2	1,2,3,4,7,8,9-Heptachlorodibenzofuran	[55673-89-7]	2	ng/mL
STD2	Octachlorodibenzofuran	[39001-02-0]	5	ng/mL
STD2	2,3,7,8-Tetrachlorodibenzo-p-dioxin (13C12,99% abelled)	[1746-01-6]/unl	10	ng/mL
STD2	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (13C12,99%)	[109719-79-1]	10	ng/mL
STD2	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (13C12,99%)	[109719-80-4]	10	ng/mL
STD2	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (13C12,99%)	[109719-81-5]	10	ng/mL
STD2	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (13C12,99%)	[109719-82-6]	10	ng/mL
STD2	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (13C12,99%)	[35822-46-9]/unlabelled	10	ng/mL
STD2	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (13C12,99%)	[114423-97-1]	20	ng/mL
STD2	2,3,7,8-Tetrachlorodibenzofuran (13C12,99%)	[89059-46-1]	10	ng/mL
STD2	1,2,3,7,8-Pentachlorodibenzofuran (13C12,99%)	[109719-77-9]	10	ng/mL
STD2	2,3,4,7,8-Pentachlorodibenzofuran (13C12,99%)	[116843-02-8]	10	ng/mL
STD2	1,2,3,4,7,8-Hexachlorodibenzofuran (13C12,99%)	[114423-98-2]	10	ng/mL
STD2	1,2,3,6,7,8-Hexachlorodibenzofuran (13C12,99%)	[116843-03-9]	10	ng/mL
STD2	1,2,3,7,8,9-Hexachlorodibenzofuran (13C12,99%)	[116843-04-0]	10	ng/mL

STD2	2,3,4,6,7,8-Hexachlorodibenzofuran (13C12,99%)	[116843-05-1]	10	ng/mL
STD2	1,2,3,4,6,7,8-Heptachlorodibenzofuran (13C12,99%)	[109719-84-8]	10	ng/mL
STD2	1,2,3,4,7,8,9-Heptachlorodibenzofuran (13C12,99%)	[109719-94-0]	10	ng/mL
STD2	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (13C12,99%)	[109719-78-0]	20	ng/mL
STD3	2,3,7,8-Tetrachlorodibenzo-p-dioxin	[1746-01-6]	5	ng/mL
STD3	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	[40321-76-4]	5	ng/mL
STD3	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	[39227-28-6]	10	ng/mL
STD3	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	[57653-85-7]	10	ng/mL
STD3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	[19408-74-3]	10	ng/mL
STD3	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	[35822-46-9]	10	ng/mL
STD3	Octachlorodibenzo-p-dioxin	[3268-87-9]	25	ng/mL
STD3	2,3,7,8-Tetrachlorodibenzofuran	[51207-31-9]	5	ng/mL
STD3	1,2,3,7,8-Pentachlorodibenzofuran	[57117-41-6]	5	ng/mL
STD3	2,3,4,7,8-Pentachlorodibenzofuran	[57117-31-4]	5	ng/mL
STD3	1,2,3,4,7,8-Hexachlorodibenzofuran	[55684-94-1]	10	ng/mL
STD3	1,2,3,6,7,8-Hexachlorodibenzofuran	[57117-44-9]	10	ng/mL
STD3	1,2,3,7,8,9-Hexachlorodibenzofuran	[72918-21-9]	10	ng/mL
STD3	2,3,4,6,7,8-Hexachlorodibenzofuran	[60851-34-5]	10	ng/mL

	ibenzofuran			
STD3	1,2,3,4,6,7,8-Heptachlorodibenzofuran	[67562-39-4]	10	ng/mL
	rodibenzofuran			
STD3	1,2,3,4,7,8,9-Heptachlorodibenzofuran	[55673-89-7]	10	ng/mL
	rodibenzofuran			
STD3	Octachlorodibenzofuran	[39001-02-0]	25	ng/mL
STD3	2,3,7,8-Tetrachlorodibenzofuran (13C12,99% nzo-p-dioxin (13C12,99% abelled )	[1746-01-6]/unl	10	ng/mL
STD3	1,2,3,7,8-Pentachlorodibenzofuran (13C12,9 9%)	[109719-79-1]	10	ng/mL
STD3	1,2,3,4,7,8-Hexachlorodibenzofuran (13C12, 99%)	[109719-80-4]	10	ng/mL
STD3	1,2,3,6,7,8-Hexachlorodibenzofuran (13C12, 99%)	[109719-81-5]	10	ng/mL
STD3	1,2,3,7,8,9-Hexachlorodibenzofuran (13C12, 99%)	[109719-82-6]	10	ng/mL
STD3	1,2,3,4,6,7,8-Heptachlorodibenzofuran (13C12, 99%)	[35822-46-9]/unl	10	ng/mL
	rodibenzo-p-dioxin (13C12,99%)			
STD3	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (13C12,99%)	[114423-97-1]	20	ng/mL
STD3	2,3,7,8-Tetrachlorodibenzofuran (13C12,99%)	[89059-46-1]	10	ng/mL
STD3	1,2,3,7,8-Pentachlorodibenzofuran (13C12,99%)	[109719-77-9]	10	ng/mL
STD3	2,3,4,7,8-Pentachlorodibenzofuran (13C12,99%)	[116843-02-8]	10	ng/mL
STD3	1,2,3,4,7,8-Hexachlorodibenzofuran (13C12,99%)	[114423-98-2]	10	ng/mL
STD3	1,2,3,6,7,8-Hexachlorodibenzofuran (13C12,99%)	[116843-03-9]	10	ng/mL
STD3	1,2,3,7,8,9-Hexachlorodibenzofuran (13C12,99%)	[116843-04-0]	10	ng/mL

	ibenzofuran (13C12,99%)			
STD3	2,3,4,6,7,8-Hexachlorod ibenzofuran (13C12,99%)	[116843-05-1]	10	ng/mL
STD3	1,2,3,4,6,7,8-Heptachlo rodibenzofuran (13C12,9 9%)	[109719-84-8]	10	ng/mL
STD3	1,2,3,4,7,8,9-Heptachlo rodibenzofuran (13C12,9 9%)	[109719-94-0]	10	ng/mL
STD3	1,2,3,4,6,7,8,9-Octachl orodibenzofuran (13C12, 99%)	[109719-78-0]	20	ng/mL
STD4	2,3,7,8-Tetrachlorodibe nzo-p-dioxin	[1746-01-6]	20	ng/mL
STD4	1,2,3,7,8-Pentachlorodi benzo-p-dioxin	[40321-76-4]	20	ng/mL
STD4	1,2,3,4,7,8-Hexachlorod ibenzo-p-dioxin	[39227-28-6]	40	ng/mL
STD4	1,2,3,6,7,8-Hexachlorod ibenzo-p-dioxin	[57653-85-7]	40	ng/mL
STD4	1,2,3,7,8,9-Hexachlorod ibenzo-p-dioxin	[19408-74-3]	40	ng/mL
STD4	1,2,3,4,6,7,8-Heptachlo rodibenzo-p-dioxin	[35822-46-9]	40	ng/mL
STD4	Octachlorodibenzo-p-dio xin	[3268-87-9]	100	ng/mL
STD4	2,3,7,8-Tetrachlorodibe nzofuran	[51207-31-9]	20	ng/mL
STD4	1,2,3,7,8-Pentachlorodi benzofuran	[57117-41-6]	20	ng/mL
STD4	2,3,4,7,8-Pentachlorodi benzofuran	[57117-31-4]	20	ng/mL
STD4	1,2,3,4,7,8-Hexachlorod ibenzofuran	[55684-94-1]	40	ng/mL
STD4	1,2,3,6,7,8-Hexachlorod ibenzofuran	[57117-44-9]	40	ng/mL
STD4	1,2,3,7,8,9-Hexachlorod ibenzofuran	[72918-21-9]	40	ng/mL

STD4	2,3,4,6,7,8-Hexachlorodibenzofuran	[60851-34-5]	40	ng/mL
STD4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	[67562-39-4]	40	ng/mL
STD4	1,2,3,4,7,8,9-Heptachlorodibenzofuran	[55673-89-7]	40	ng/mL
STD4	Octachlorodibenzofuran	[39001-02-0]	100	ng/mL
STD4	2,3,7,8-Tetrachlorodibenzo-p-dioxin (13C12,99% labelled)	[1746-01-6]/unl	10	ng/mL
STD4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (13C12,99%)	[109719-79-1]	10	ng/mL
STD4	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (13C12,99%)	[109719-80-4]	10	ng/mL
STD4	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (13C12,99%)	[109719-81-5]	10	ng/mL
STD4	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (13C12,99%)	[109719-82-6]	10	ng/mL
STD4	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (13C12,99% labelled)	[35822-46-9]/un	10	ng/mL
STD4	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (13C12,99%)	[114423-97-1]	20	ng/mL
STD4	2,3,7,8-Tetrachlorodibenzofuran (13C12,99%)	[89059-46-1]	10	ng/mL
STD4	1,2,3,7,8-Pentachlorodibenzofuran (13C12,99%)	[109719-77-9]	10	ng/mL
STD4	2,3,4,7,8-Pentachlorodibenzofuran (13C12,99%)	[116843-02-8]	10	ng/mL
STD4	1,2,3,4,7,8-Hexachlorodibenzofuran (13C12,99%)	[114423-98-2]	10	ng/mL
STD4	1,2,3,6,7,8-Hexachlorodibenzofuran (13C12,99%)	[116843-03-9]	10	ng/mL



STD4	1,2,3,7,8,9-Hexachlorodibenzofuran (13C12,99%)	[116843-04-0]	10	ng/mL
STD4	2,3,4,6,7,8-Hexachlorodibenzofuran (13C12,99%)	[116843-05-1]	10	ng/mL
STD4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (13C12,99%)	[109719-84-8]	10	ng/mL
STD4	1,2,3,4,7,8,9-Heptachlorodibenzofuran (13C12,99%)	[109719-94-0]	10	ng/mL
STD4	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (13C12,99%)	[109719-78-0]	20	ng/mL
STD5	2,3,7,8-Tetrachlorodibenzo-p-dioxin	[1746-01-6]	100	ng/mL
STD5	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	[40321-76-4]	100	ng/mL
STD5	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	[39227-28-6]	200	ng/mL
STD5	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	[57653-85-7]	200	ng/mL
STD5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	[19408-74-3]	200	ng/mL
STD5	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	[35822-46-9]	200	ng/mL
STD5	Octachlorodibenzo-p-dioxin	[3268-87-9]	500	ng/mL
STD5	2,3,7,8-Tetrachlorodibenzofuran	[51207-31-9]	100	ng/mL
STD5	1,2,3,7,8-Pentachlorodibenzofuran	[57117-41-6]	100	ng/mL
STD5	2,3,4,7,8-Pentachlorodibenzofuran	[57117-31-4]	100	ng/mL
STD5	1,2,3,4,7,8-Hexachlorodibenzofuran	[55684-94-1]	200	ng/mL
STD5	1,2,3,6,7,8-Hexachlorodibenzofuran	[57117-44-9]	200	ng/mL
STD5	1,2,3,7,8,9-Hexachlorodibenzofuran	[72918-21-9]	200	ng/mL

	ibenzofuran			
STD5	2,3,4,6,7,8-Hexachlorod	[60851-34-5]	200	ng/mL
	ibenzofuran			
STD5	1,2,3,4,6,7,8-Heptachlo	[67562-39-4]	200	ng/mL
	rodibenzofuran			
STD5	1,2,3,4,7,8,9-Heptachlo	[55673-89-7]	200	ng/mL
	rodibenzofuran			
STD5	Octachlorodibenzofuran	[39001-02-0]	500	ng/mL
STD5	2,3,7,8-Tetrachlorodibe	[1746-01-6]/unl	10	ng/mL
	nzo-p-dioxin (13C12,99% abelled )			
STD5	1,2,3,7,8-Pentachlorodi	[109719-79-1]	10	ng/mL
	benzo-p-dioxin (13C12,9 9%)			
STD5	1,2,3,4,7,8-Hexachlorod	[109719-80-4]	10	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
STD5	1,2,3,6,7,8-Hexachlorod	[109719-81-5]	10	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
STD5	1,2,3,7,8,9-Hexachlorod	[109719-82-6]	10	ng/mL
	ibenzo-p-dioxin (13C12, 99%)			
STD5	1,2,3,4,6,7,8-Heptachlo	[35822-46-9]/un	10	ng/mL
	rodibenzo-p-dioxin (13C 12,99%) labelled			
STD5	1,2,3,4,6,7,8,9-Octachl	[114423-97-1]	20	ng/mL
	orodibenzo-p-dioxin (13 C12,99%)			
STD5	2,3,7,8-Tetrachlorodibe	[89059-46-1]	10	ng/mL
	nzofuran (13C12,99%)			
STD5	1,2,3,7,8-Pentachlorodi	[109719-77-9]	10	ng/mL
	benzofuran (13C12,99%)			
STD5	2,3,4,7,8-Pentachlorodi	[116843-02-8]	10	ng/mL
	benzofuran (13C12,99%)			
STD5	1,2,3,4,7,8-Hexachlorod	[114423-98-2]	10	ng/mL
	ibenzofuran (13C12,99%)			
STD5	1,2,3,6,7,8-Hexachlorod	[116843-03-9]	10	ng/mL

	ibenzofuran (13C12,99%)			
STD5	1,2,3,7,8,9-Hexachlorod	[116843-04-0]	10	ng/mL
	ibenzofuran (13C12,99%)			
STD5	2,3,4,6,7,8-Hexachlorod	[116843-05-1]	10	ng/mL
	ibenzofuran (13C12,99%)			
STD5	1,2,3,4,6,7,8-Heptachlo	[109719-84-8]	10	ng/mL
	rodibenzofuran (13C12,9 9%)			
STD5	1,2,3,4,7,8,9-Heptachlo	[109719-94-0]	10	ng/mL
	rodibenzofuran (13C12,9 9%)			
STD5	1,2,3,4,6,7,8,9-Octachl	[109719-78-0]	20	ng/mL
	orodibenzofuran (13C12, 99%)			