



Cambridge Isotope Laboratories, Inc.

3 Highwood Drive, Tewksbury, MA 01876 USA  
 PH: 800.322.1174 (N. America) PH: 978-749-8000  
 Fax: 978-749-2768 WEB: www.isotope.com

EDF-5443 Two Column Dioxin and Furan and PCB Calibration Solutions 6x0.2 mL  
 [CS1H-CS6H] in nonane

*All concentrations are in ng/mL*

Unlabeled	IUPAC	CS1H	CS2H	CS3H	CS4H	CS5H	CS6H
2,3,7,8-TetraCDF		0.1	0.5	2.0	10	50	200
1,3,6,8-TetraCDF		0.1	0.5	2.0	10	50	200
1,2,7,8-TetraCDF		0.1	0.5	2.0	10	50	200
1,2,8,9-TetraCDF		0.1	0.5	2.0	10	50	200
1,2,3,7,8-PentaCDF		0.1	0.5	2.0	10	50	200
2,3,4,7,8-PentaCDF		0.1	0.5	2.0	10	50	200
1,2,3,4,7,8-HexaCDF		0.2	1.0	4.0	20	100	400
1,2,3,6,7,8-HexaCDF		0.2	1.0	4.0	20	100	400
2,3,4,6,7,8-HexaCDF		0.2	1.0	4.0	20	100	400
1,2,3,7,8,9-HexaCDF		0.2	1.0	4.0	20	100	400
1,2,3,4,6,7,8-HeptaCDF		0.2	1.0	4.0	20	100	400
1,2,3,4,7,8,9-HeptaCDF		0.2	1.0	4.0	20	100	400
OctaCDF		0.5	2.5	10	50	250	1000
2,3,7,8-TetraCDD		0.1	0.5	2.0	10	50	200
1,3,6,8-TetraCDD		0.1	0.5	2.0	10	50	200
1,3,7,9-TetraCDD		0.1	0.5	2.0	10	50	200
1,2,8,9-TetraCDD		0.1	0.5	2.0	10	50	200
1,2,3,7,8-PentaCDD		0.1	0.5	2.0	10	50	200
1,2,3,4,7,8-HexaCDD		0.2	1.0	4.0	20	100	400
1,2,3,6,7,8-HexaCDD		0.2	1.0	4.0	20	100	400
1,2,3,7,8,9-HexaCDD		0.2	1.0	4.0	20	100	400
1,2,3,4,6,7,8-HeptaCDD		0.2	1.0	4.0	20	100	400
OctaCDD		0.5	2.5	10	50	250	1000
3,4,4',5-TetraCB	81	0.2	0.5	2.0	10	50	200
3,3',4,4'-TetraCB	77	0.2	0.5	2.0	10	50	200
3,3',4,4',5-PentaCB	126	0.2	0.5	2.0	10	50	200
3,3',4,4',5,5'-HexaCB	169	0.2	0.5	2.0	10	50	200
2',3,4,4',5-PentaCB	123	0.2	0.5	2.0	10	50	200
2,3',4,4',5-PentaCB	118	0.2	0.5	2.0	10	50	200

<b>Unlabeled</b>	<b>IUPAC</b>	<b>CS1H</b>	<b>CS2H</b>	<b>CS3H</b>	<b>CS4H</b>	<b>CS5H</b>	<b>CS6H</b>
2,3,3',4,4'-PentaCB	105	0.2	0.5	2.0	10	50	200
2,3,4,4',5-PentaCB	114	0.2	0.5	2.0	10	50	200
2,3',4,4',5,5'-HexaCB	167	0.2	0.5	2.0	10	50	200
2,3,3',4,4',5-HexaCB	156	0.2	0.5	2.0	10	50	200
2,3,3',4,4',5'-HexaCB	157	0.2	0.5	2.0	10	50	200
2,3,3',4,4',5,5'-HeptaCB	189	0.2	0.5	2.0	10	50	200
2,2',3,3',4,4',5-HeptaCB	170	0.2	0.5	2.0	10	50	200
2,2',3,4,4',5,5'-HeptaCB	180	0.2	0.5	2.0	10	50	200
<b>Labeled</b>							
1,2,3,4-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,3,6,8-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
2,3,7,8-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,7,8-PentaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,4,7,8-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,6,7,8-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,4,6,7-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,7,8,9-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,4,6,7,8-HeptaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
OctaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		20	20	20	20	20	20
2,3,7,8-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,7,8-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,7,8-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
2,3,4,7,8-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,4,6-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,4,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,6,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
2,3,4,6,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,7,8,9-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,4,6,7,8-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,4,6,8,9-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
1,2,3,4,7,8,9-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
OctaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20	20	20	20	20	20
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	10	10	10	10	10	10
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	10	10	10	10	10	10
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	10	10	10	10	10	10
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	10	10	10	10	10	10
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	10	10	10	10	10	10
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	10	10	10	10	10	10
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	10	10	10	10	10	10

Labeled	IUPAC	CS1H	CS2H	CS3H	CS4H	CS5H	CS6H
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	10	10	10	10	10	10
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	10	10	10	10	10	10
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	10	10	10	10	10	10
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	10	10	10	10	10	10
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	10	10	10	10	10	10
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	10	10	10	10	10	10
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	10	10	10	10	10	10
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	10	10	10	10	10	10
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	10	10	10	10	10	10
2,2',3,4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	10	10	10	10	10	10
2,2',3,3',5,5',6-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	178	10	10	10	10	10	10
3,3',4,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	79	10	10	10	10	10	10