

Quantitation Limits for PCB Congeners by Method 1668A

PCB Congeners	IUPAC	Water (pg/L)	Solid (pg/g)	Tissue (pg/g)
<i>Coplanar PCBs</i>				
3,3',4,4'-Tetra-CB	77	25	2.5	1.0
3,4,4',5-Tetra-CB	81	25	2.5	1.0
3,3',4,4',5-Penta-CB	126	25	2.5	1.0
3,3',4,4',5,5'-Hexa-CB	169	25	2.5	1.0
<i>Toxically Significant Mono-Ortho Substituted PCBs</i>				
2,3,3',4,4'-Penta-CB	105	25	2.5	1.0
2,3,4,4',5-Penta-CB	114	25	2.5	1.0
2,3',4,4',5-Penta-CB	118	25	2.5	1.0
2',3,4,4',5-Penta-CB	123	25	2.5	1.0
2,3,3',4,4',5-Hexa-CB	156	25	2.5	1.0
2,3,3',4,4',5'-Hexa-CB	157	25	2.5	1.0
2,3',4,4',5,5'-Hexa-CB	167	25	2.5	1.0
2,3,3',4,4',5,5'-Hepta-CB	189	25	2.5	1.0
<i>Additional Congeners</i>				
2-Mono-CB	1	25	2.5	1.0
3-Mono-CB	2	25	2.5	1.0
4-Mono-CB	3	25	2.5	1.0
	4/10	50	5.0	2.0
2,3'-DiCB	6	50	5.0	2.0
	5/8	50	5.0	2.0
	7/9	50	5.0	2.0
3,3'-DiCB	11	50	5.0	2.0
	12/13	50	5.0	2.0
3,5-DiCB	14	50	5.0	2.0
4,4'-DiCB	15	50	5.0	2.0
	16/32	25	2.5	1.0
2,2',4-TriCB	17	25	2.5	1.0
2,2',5-TriCB	18	25	2.5	1.0
2,2',6-TriCB	19	25	2.5	1.0
	20/21/33	25	2.5	1.0
2,3,4'-TriCB	22	25	2.5	1.0
2,3,5-TriCB	23	25	2.5	1.0
	24/27	25	2.5	1.0
2,3',4-TriCB	25	25	2.5	1.0
2,3',5-TriCB	26	25	2.5	1.0
2,4,4'-Tri-CB	28	25	2.5	1.0
2,4,5-TriCB	29	25	2.5	1.0

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2,4,6-TriCB	30	25	2.5	1.0
2,4',5-Tri-CB	31	25	2.5	1.0
2,3',5'-TriCB	34	25	2.5	1.0
3,3',4-TriCB	35	25	2.5	1.0
3,3',5-TriCB	36	25	2.5	1.0
3,4,4'-Tri-CB	37	25	2.5	1.0
3,4,5-TriCB	38	25	2.5	1.0
3,4',5-TriCB	39	25	2.5	1.0
2,2',3,3'-TetraCB	40	25	2.5	1.0
	41/64/71/72	25	2.5	1.0
	42/59	25	2.5	1.0
	43/49	25	2.5	1.0
2,2',3,5'-Tetra-CB	44	25	2.5	1.0
2,2',3,6-Tetra-CB	45	25	2.5	1.0
2,2',3,6'-Tetra-CB	46	25	2.5	1.0
2,2',4,4'-Tetra-CB	47	25	2.5	1.0
	48/75	25	2.5	1.0
2,2',4,6-TetraCB	50	25	2.5	1.0
2,2',4,6'-TetraCB	51	25	2.5	1.0
	52/69	25	2.5	1.0
2,2',5,6'-TetraCB	53	25	2.5	1.0
2,2',6,6'-TetraCB	54	25	2.5	1.0
2,3,3',4-TetraCB	55	25	2.5	1.0
	56/60	25	2.5	1.0
2,3,3',5-TetraCB	57	25	2.5	1.0
2,3,3',5'-TetraCB	58	25	2.5	1.0
	61/70	25	2.5	1.0
2,3,4,6-Tetra-CB	62	25	2.5	1.0
2,3,4',5-Tetra-CB	63	25	2.5	1.0
2,3,5,6-Tetra-CB	65	25	2.5	1.0
2,3',4,5-Tetra-CB	67	25	2.5	1.0
2,3',4,5'-Tetra-CB	68	25	2.5	1.0
2,3',5',6-Tetra-CB	73	25	2.5	1.0
2,4,4',5-Tetra-CB	74	25	2.5	1.0
2,3',4',5'-Tetra-CB	76/66	25	2.5	1.0
3,3',4,4'-Tetra-CB	77	25	2.5	1.0
3,3',4,5-Tetra-CB	78	25	2.5	1.0
3,3',4,5'-Tetra-CB	79	25	2.5	1.0
3,3',5,5'-Tetra-CB	80	25	2.5	1.0
3,4,4',5-Tetra-CB	81	25	2.5	1.0

PCB Congeners	IUPAC	Water (pg/L)	Solid (pg/g)	Tissue (pg/g)
2,2',3,3',4-Penta-CB	82	25	2.5	1.0
2,2',3,3',5-Penta-CB	83	25	2.5	1.0
	84/92	25	2.5	1.0
	85/116	25	2.5	1.0
2,2',3,4,5-Penta-CB	86	25	2.5	1.0
	87/117/125	25	2.5	1.0
	88/91	25	2.5	1.0
2,2',3,4,6'-Penta-CB	89	25	2.5	1.0
	90/101	25	2.5	1.0
2,2',3,5,6-Penta-CB	93	25	2.5	1.0
2,2',3,5,6'-Penta-CB	94	25	2.5	1.0
	95/98/102	25	2.5	1.0
2,2',3,6,6'-Penta-CB	96	25	2.5	1.0
2,2',3,4',5-Penta-CB	97	25	2.5	1.0
2,2',4,4',5-Penta-CB	99	25	2.5	1.0
2,2',4,4',6-Penta-CB	100	25	2.5	1.0
2,2',4,5',6-Penta-CB	103	25	2.5	1.0
2,2',4,4,6'-Penta-CB	104	25	2.5	1.0
2,3,3',4,4'-Penta-CB	105	25	2.5	1.0
	106/118	25	2.5	1.0
	107/109	25	2.5	1.0
	108/112	25	2.5	1.0
2,3,3',4',6-Penta-CB	110	25	2.5	1.0
	111/115	25	2.5	1.0
2,3,3',5',6-Penta-CB	113	25	2.5	1.0
2,3,4,4',5-Penta-CB	114	25	2.5	1.0
2,3',4,4',6-Penta-CB	119	25	2.5	1.0
2,3',4,5,5'-Penta-CB	120	25	2.5	1.0
2,3',4,5',6-Penta-CB	121	25	2.5	1.0
2,3,3',4',5'-Penta-CB	122	25	2.5	1.0
2,3',4,4',5'-Penta-CB	123	25	2.5	1.0
2,3',4',5,5'-Penta-CB	124	25	2.5	1.0
3,3',4,4',5-Penta-CB	126	25	2.5	1.0
3,3',4,5,5'-Penta-CB	127	25	2.5	1.0
	128/162	25	2.5	1.0
2,2',3,3',4,5-Hexa-CB	129	25	2.5	1.0
2,2',3,3',4,5'-Hexa-CB	130	25	2.5	1.0
2,2',3,3',4,6-Hexa-CB	131	25	2.5	1.0
	132/161	25	2.5	1.0
	133/142	25	2.5	1.0

PCB Congeners	IUPAC	Water (pg/L)	Solid (pg/g)	Tissue (pg/g)
	134/143	25	2.5	1.0
2,2',3,3',5,6'-HexaCB	135	25	2.5	1.0
2,2',3,3',6,6'-Hexa-CB	136	25	2.5	1.0
2,2',3,4,4',5-Hexa-CB	137	25	2.5	1.0
	138/163/164	25	2.5	1.0
	139/149	25	2.5	1.0
2,2',3,4,4',6'-Hexa-CB	140	25	2.5	1.0
2,2',3,4,5,5'-Hexa-CB	141	25	2.5	1.0
2,2',3,4,5',6-Hexa-CB	144	25	2.5	1.0
2,2',3,4,6,6'-Hexa-CB	145	25	2.5	1.0
	146/165	25	2.5	1.0
2,2',3,4',5,6-Hexa-CB	147	25	2.5	1.0
2,2',3,4',5,6'-Hexa-CB	148	25	2.5	1.0
2,2',3,4',6,6'-Hexa-CB	150	25	2.5	1.0
2,2',3,5,5',6-Hexa-CB	151	25	2.5	1.0
2,2',3,5,6,6'-Hexa-CB	152	25	2.5	1.0
2,2',4,4',5,5'-Hexa-CB	153	25	2.5	1.0
2,2',4,4',5,6'-Hexa-CB	154	25	2.5	1.0
2,2',4,4',6,6'-Hexa-CB	155	25	2.5	1.0
2,3,3',4,4',5-Hexa-CB	156	25	2.5	1.0
2,3,3',4,4',5'-Hexa-CB	157	25	2.5	1.0
	158/160	25	2.5	1.0
2,3,3',4,5,5'-Hexa-CB	159	25	2.5	1.0
2,3,4,4',5,6-Hexa-CB	166	25	2.5	1.0
2,3',4,4',5,5'-Hexa-CB	167	25	2.5	1.0
2,3',4,4',5',6-Hexa-CB	168	25	2.5	1.0
3,3',4,4',5,5'-Hexa-CB	169	25	2.5	1.0
2,2',3,3',4,4',5-Hepta-CB	170	25	2.5	1.0
2,2',3,3',4,4',6-Hepta-CB	171	25	2.5	1.0
2,2',3,3',4,5,5'-Hepta-CB	172	25	2.5	1.0
2,2',3,3',4,5,6-Hepta-CB	173	25	2.5	1.0
2,2',3,3',4,5,6'-Hepta-CB	174	25	2.5	1.0
2,2',3,3',4,5',6-Hepta-CB	175	25	2.5	1.0
2,2',3,3',4,6,6'-Hepta-CB	176	25	2.5	1.0
2,2',3,3',4,5',6-Hepta-CB	177	25	2.5	1.0
2,2',3,3',5,5',6-Hepta-CB	178	25	2.5	1.0
2,2',3,3',5,6,6'-Hepta-CB	179	25	2.5	1.0
2,2',3,4,4',5,5'-Hepta-CB	180	25	2.5	1.0
2,2',3,4,4',5,6-Hepta-CB	181	25	2.5	1.0
	182/187	25	2.5	1.0

PCB Congeners	IUPAC	Water (pg/L)	Solid (pg/g)	Tissue (pg/g)
2,2',3,4,4',5',6-Hepta-CB	183	25	2.5	1.0
2,2',3,4,4',6,6'-Hepta-CB	184	25	2.5	1.0
2,2',3,4,5,5',6-Hepta-CB	185	25	2.5	1.0
2,2',3,4,5,6,6'-Hepta-CB	186	25	2.5	1.0
2,2',3,4',5,6,6'-Hepta-CB	188	25	2.5	1.0
2,3,3',4,4',5,5'-Hepta-CB	189	25	2.5	1.0
2,3,3',4,4',5,6-Hepta-CB	190	25	2.5	1.0
2,3,3',4,4',5',6-Hepta-CB	191	25	2.5	1.0
2,3,3',4,5,5',6-Hepta-CB	192	25	2.5	1.0
2,3,3',4',5,5',6-Hepta-CB	193	25	2.5	1.0
2,2',3,3',4,4',5,5'-Octa-CB	194	25	2.5	1.0
2,2',3,3',4,4',5,6-Octa-CB	195	25	2.5	1.0
	196/203	25	2.5	1.0
2,2',3,3',4,4',6,6'-Octa-CB	197	25	2.5	1.0
2,2',3,3',4,5,5',6-Octa-CB	198	25	2.5	1.0
2,2',3,3',4,5,5',6'-Octa-CB	199	25	2.5	1.0
2,2',3,3',4,5,6,6'-Octa-CB	200	25	2.5	1.0
2,2',3,3',4,5',6,6'-Octa-CB	201	25	2.5	1.0
2,2',3,3'5,5',6,6'-Octa-CB	202	25	2.5	1.0
2,2',3,4,4',5,6,6'-Octa-CB	204	25	2.5	1.0
2,3,3',4,4',5,5',6-Octa-CB	205	25	2.5	1.0
2,2',3,3',4,4',5,5',6-Nona-CB	206	25	2.5	1.0
2,2',3,3',4,4',5,6,6'-Nona-CB	207	25	2.5	1.0
2,2',3,3',4,5,5',6,6'-Nona-CB	208	25	2.5	1.0
Deca-CB	209	25	2.5	1.0
Total PCB Homologues				
Monochlorobiphenyl		25	2.5	1.0
Dichlorobiphenyl		50	5.0	2.0
Trichlorobiphenyl		25	2.5	1.0
Tetrachlorobiphenyl		25	2.5	1.0
Pentachlorobiphenyl		25	2.5	1.0
Hexachlorobiphenyl		25	2.5	1.0
Heptachlorobiphenyl		25	2.5	1.0
Octachlorobiphenyl		25	2.5	1.0
Nonachlorobiphenyl		25	2.5	1.0
Decachlorobiphenyl		25	2.5	1.0

Quantitation limits based on 1 L aqueous sample, 10 g solid, 25 g tissue and 100 µL Final Volume.