

Table 11. List of halocompounds in human body.

CAS-number	Compound name	Formula	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva	Semen
<i>Fluorocompounds</i>										
76-13-1	1,1,2-trichloro-1,2,2-trifluoroethane / Freon 113	C2Cl3F3			[378, 401]		[155]			
811-97-2	1,1,1,2-Tetrafluoroethane	C2H2F4			[401]					
690-27-7	2 H-Perfluoropropene	C3HF5			[275]					
648-36-2	3,3,4,4-Tetrafluorohexane	C6H10F4			[377]					
920-66-1	2-Propanol, 1,1,1,3,3,3-hexafluoro-	C3H2F6O			[361]					
28523-86-6	Sevoflurane	C4H3F7O			[361]					
6418-38-8	Phenol, 2,3-difluoro	C6H4F2O			[380]					
367-27-1	Phenol, 2,4-difluoro	C6H4F2O			[380]					
2713-31-7	Phenol, 2,5-difluoro	C6H4F2O			[380]					
28177-48-2	Phenol, 2,6-difluoro	C6H4F2O			[380]					
2713-34-0	Phenol, 3,5-difluoro	C6H4F2O			[380]					
372-38-3	1,3,5-Trifluorobenzene	C6H3F3			[380]					
367-23-7	1,2,4-Trifluorobenzene	C6H3F3			[380]					
327-70-8	Trifluoroacetic acid, n-pentyl ester	C7H11F3O2								[241]
na	DL-3-Methyl-2-butanol, pentafluoropropionate	C8H11F5O2			[369]					
na	1-Methoxy-5-trifluoroacetoxyhexane	C9H15F3O3			[369]					
<i>Chlorocompounds</i>										
<i>Alkyl</i>										
56-23-5	carbon tetrachloride	CCl4			[408]		[155, 161]	[136, 138, 141]		
75-09-2	methylene chloride / dichloromethane	CH2Cl2	[9, 216, 222]	[194]	[269, 322, 336, 391, 408]		[155, 161]	[130, 131, 136, 138, 141]	[110]	

74-87-3	chloromethane / Methyl chloride	CH3Cl			[6, 60, 405]		[155]	
67-66-3	chloroform / trichloromethane	CHCl3	[9, 222]	[193, 255-257]	[55, 274, 277, 353, 373, 382, 408]		[155, 157, 161]	[121, 122, 126, 130, 136, 138, 141]
67-72-1	Hexachloroethane	C2Cl6					[161]	
79-34-5	tetrachloroethane / 1,1,2,2-tetrachloroethane	C2H2Cl4		[193]			[161]	[138]
71-55-6	1,1,1-trichloroethane	C2H3Cl3					[161]	[121, 123, 138, 141]
79-00-5	1,1,2-trichloroethane	C2H3Cl3					[161]	[138]
75-34-3	1,1-dichloroethane	C2H4Cl2			[378]		[161]	[121, 138]
107-06-2	1,2-dichloroethane / dichloroethylene	C2H4Cl2			[408]		[155, 161]	[136, 138]
75-00-3	chloroethane	C2H5Cl					[155]	
26952-23-8	dichloropropene	C3H4Cl2					[155]	
78-87-5	1,2-dichloropropane	C3H6Cl2					[161]	[121, 138]
75-29-6	2-chloropropane	C3H7Cl						[126]
109-69-3	1-chlorobutane	C4H9Cl			408,			[141]
78-86-4	2-chlorobutane	C4H9Cl						[141]
513-36-0	1-chloro-2-methylpropane	C4H9Cl			[369, 408]			
29656-63-1	chloropentane ui	C5H11Cl					[155]	
543-59-9	1-chloropentane	C5H11Cl			[408]			
26688-50-6	1,3-dichlorocyclopentane	C5H8Cl2			[408]			
26688-51-7	cis-1,3-dichlorocyclopentane	C5H8Cl2			[408]			
542-18-7	chlorocyclohexane	C6H11Cl		[257, 258]	[408]			
25495-90-3	chlorohexane ui	C6H13Cl					[155]	
544-10-5	1-chlorohexane	C6H13Cl				[178]		[126]
638-28-8	2-chlorohexane	C6H13Cl			[408]			[126]

629-06-1	1-chloroheptane	C7H15Cl	[57]	[178]			
4398-65-6	2-chloro-2-methylhexane	C7H15Cl	[408]				
628-61-5	1-methylheptyl chloride	C8H17Cl	[408]				
2473-01-0	1-chlorononane	C9H19Cl	[57]	[178, 185]			
28519-06-4	chlorodecane ui	C10H21Cl			[155]		
1002-69-3	1-chlorodecane	C10H21Cl					[113]
112-52-7	1-chlorododecane	C12H25Cl		[178]			
2425-54-9	1-chlorotetradecane	C14H29Cl		[178]			
4862-03-7	1-chloropentadecane	C15H31Cl		[178]			
4860-03-1	1-chlorohexadecane	C16H33Cl		[178]			
<i>Alkenyl & benzylcompounds</i>							
127-18-4	tetrachloroethylene / tetrachloroethene	C2Cl4	[257]	[6, 57, 300, 391]	[161, 167]	[121, 127, 136, 138]	[418]
75-35-4	1,1-dichloroethene	C2H2Cl2		[391]	[161]	[138]	
156-60-5	(E)-1,2-dichloroethene / trans- 1,2-Dichloroethylene	C2H2Cl2			[161]	[138]	
156-59-2	(Z)-1,2-dichloroethene / cis- 1,2-Dichloroethylene	C2H2Cl2		[391]	[161]	[138]	
75-01-4	vinylchloride	C2H3Cl		[391, 408]			
79-01-6	1,1,2-trichloroethene / algylen / Trichloroethylene	C2HCl3		[336, 341, 344, 391, 408]	[155, 161]	[123, 136, 138]	
1458-99-7	4-chloro-2-pentene	C5H9Cl		[408]			
29480-42-0	1,6-dichloro-1,5- cyclooctadiene	C8H10Cl2			[178]		
108-70-3	1,3,5-trichlorobenzene	C6H3Cl3		[408]		[155]	
120-82-1	Benzene, 1,2,4-trichloro- / 1,2,4-trichlorobenzene	C6H3Cl3		[353, 372]			
25321-22-6	dichlorobenzene ui	C6H4Cl2		[55, 355]		[155]	

95-50-1	1,2-dichlorobenzene	C6H4Cl2		[118, 372, 393, 408]	161,	138,
541-73-1	1,3-dichlorobenzene / 1,3-dichlorbenzol	C6H4Cl2		[274, 353, 408]	[161]	[138]
106-46-7	1,4-dichlorobenzene	C6H4Cl2	[257, 258]	[57, 369, 408]	[161]	[121, 130, 136, 138]
108-90-7	chlorobenzene / benzene chloride	C6H5Cl		[364, 372, 393, 408]	[178]	[155, 161] [138]
672-65-1	chloroethylbenzene	C8H9Cl			[155]	
824-47-5	2-chloro-1-methylethylbenzene	C9H11Cl			[178]	
na	1-chloro-4-(4-methyl-4-pentyl)benzene	C12H17Cl			[178]	
20524-86-1	Methane, oxybis[dichloro-	C2H2Cl4O		[377]		
107-07-3	2-Chloroethanol	C2H5ClO	[251]			
96-23-1	1,3-Dichlor-2-propanol	C3H6Cl2O		[57, 369]		
10503-96-5	1-(2-chloroethoxy)butane	C6H13ClO		[408]		
24468-13-1	DL-2-Ethylhexyl chloroformate	C9H17ClO2		[364]		
16397-79-8	Acetic acid,2,2,2-trichloro-, 2-ethylhexyl ester	C10H17Cl3O2		[344]		
90-17-5	acetic acid, alpha-trichloromethylbenzyl ester / alpha-trichloromethylbenzyl acetate	C10H9Cl3O2			[182]	[182, 420]
<i>Bromocompounds</i>						
74-95-3	dibromomethane	CH2Br2			[161]	[138]
74-83-9	bromomethane	CH3Br		[408]		
75-25-2	tribromomethane / bromoform	CHBr3	[222]	[373]	[161]	[136, 138]
106-93-4	1,2-Dibromoethane	C2H4Br2			[161]	
1001-93-0	1,3-Pentadiene, 5-bromo-	C5H7Br				[241]

108-86-1	Benzene, bromo- / Bromobenzene	C6H5Br	[353]			
na	Cyclopropane, 1-bromo-1-(3- methyl-1-pentenylidene)- 2,2,3,3-tetramethyl	C13H21Br	[304]			
1940-57-4	9H-Fluorene, 9-bromo- <i>Iodocompounds</i>	C13H9Br		[409]		
74-88-4	iodomethane	CH3I		[178]		
628-17-1	iodopentane	C5H11I			[155]	
557-36-8	Octane, 2-iodo-	C8H17I				[241]
4282-42-2	Nonane, 1-iodo-	C9H19I	[369]			
2050-77-3	1-iododecane	C10H21I	[277]			
<i>Mixed halogen & halogen plus other heterocompounds</i>						
594-18-3	dibromodichloromethane	CBr2Cl2			[155]	
75-69-4	trichlorofluoromethane	CCl3F			[155]	
75-72-9	chlorotrifluoromethane	CClF3			[155]	
124-63-0	methanesulfonylchloride	CH3ClO2S	[369]	[178, 409]		
124-48-1	dibromochloromethane	CHBr2Cl	[373, 382]		[155, 161]	[136, 138]
75-27-4	bromodichloromethane	CHBrCl2	[373, 382]		[161]	[138, 136]
75-71-8	dichlorodifluoromethane	CHCl2F	[401]		[155]	
7119-89-3	Methane, dichloronitro-	CHCl2NO2	[369]			
75-45-6	chlorodifluoromethane	CHClF2			[155]	
640-19-7	2-fluoroacetamide	C2H4FNO				[130]
96-12-8	1,2-Dibromo-3-chloropropane	C3H5Br2Cl			[161]	
608-27-5	2,3-dichlorobenzeneamine	C6H5Cl2N		[178]		
108-42-9	3-chlorobenzeneamine	C6H6ClN		[178]		
402-43-7	Benzene, 1-bromo-4- (trifluoromethyl)-	C7H4BrF3	[277]			
455-14-1	Benzenamine, 4- (trifluotomethyl)-	C7H6F3N	[364]			
80-07-9	1,1'-sulfonylbis(4- chlorobenzene)	C12H8Cl2O2 S			[178]	

na	Carbamic acid, N-[1,1-bis(trifluoromethyl)ethyl]-, 4-(1,1,3,3-tetramethylbutyl)phenyl ester	C19H25F6NO2	[253]
<i>Chlorinated biphenyls & chlorinated and brominated phenols</i>			
na	3-hydroxy-2,2',3',4,4',5,5',6'-octachlorobiphenyl	C12H2Cl8O	[415]
na	4-hydroxy-2,2',3,3',5,5',6,6'-octachlorobiphenyl	C12H2Cl8O	[415]
na	4-hydroxy-2,2',3,3',4',5,5',6'-octachlorobiphenyl	C12H2Cl8O	[415]
na	4,4'-dihydroxy-2,2',3,3',5,5',6,6'-octachlorobiphenyl	C12H2Cl8O2	[415]
na	3-hydroxy-2,2',3',4,4',6,6'-heptachlorobiphenyl	C12H3Cl7O	[415]
na	3-hydroxy-2,2',3',4,4',5',6'-heptachlorobiphenyl	C12H3Cl7O	[415]
na	3-hydroxy-2,2',3',4,4',5,6'-heptachlorobiphenyl	C12H3Cl7O	[415]
na	3-hydroxy-2,2',3',4,4',5,5'-heptachlorobiphenyl	C12H3Cl7O	[415]
190317-24-9	4-hydroxy-2,3,3',4',5,5',6'-heptachlorobiphenyl	C12H3Cl7O	[415]
158076-64-3	4-hydroxy-2,2',3,3',4',5,5'-heptachlorobiphenyl	C12H3Cl7O	[415]
158076-65-4	4-hydroxy-2,2',3,3',4',5,6'-heptachlorobiphenyl	C12H3Cl7O	[415]
158076-68-7	4-hydroxy-2,2',3,4',5,5',6'-heptachlorobiphenyl	C12H3Cl7O	[415]
356033-96-0	4-hydroxy-2,2',3,3',5,5',6'-heptachlorobiphenyl	C12H3Cl7O	[415]

na	4,4'-dihydroxy-2,2',3,3',5,5',6-heptachlorobiphenyl	C12H3Cl7O2	[415]
na	4,3'-dihydroxy-2,2',3,4',5,5',6-heptachlorobiphenyl	C12H3Cl7O2	[415]
na	4-hydroxy-2,2',3,3',5,6-hexachlorobiphenyl	C12H4Cl6O	[415]
na	3-hydroxy-2,2',4,4',5,5'-hexachlorobiphenyl	C12H4Cl6O	[415]
145413-90-7	4-hydroxy-2,2',3,4',5,5'-hexachlorobiphenyl	C12H4Cl6O	[415]
na	3-hydroxy-2,2',3',4,4',5-hexachlorobiphenyl	C12H4Cl6O	[415]
na	4-hydroxy-2,2',3',4,4',5-hexachlorobiphenyl	C12H4Cl6O	[415]
941713-66-2	4-hydroxy-2,3,3',4',5,6-hexachlorobiphenyl	C12H4Cl6O	[415]
na	3-hydroxy-2,2',3',4,4'-pentachlorobiphenyl	C12H5Cl5O	[415]
170946-11-9	3-hydroxy-2,3',4,4',5-pentachlorobiphenyl	C12H5Cl5O	[415]
na	4-hydroxy-2,3,3',4',5-pentachlorobiphenyl	C12H5Cl5O	[415]
na	4-hydroxy-2',3,3',4',5-pentachlorobiphenyl	C12H5Cl5O	[415]
na	4-hydroxy-2',3,4',5,5'-pentachlorobiphenyl	C12H5Cl5O	[415]
na	4-hydroxy-2,2',3,4',5'-pentachlorobiphenyl	C12H5Cl5O	[415]
na	4-hydroxy-2,2',4',5,5'-pentachlorobiphenyl	C12H5Cl5O	[415]

na	4-hydroxy-3,3',4',5,5'-pentachlorobiphenyl	C12H5Cl5O	[415]
na	3',4-dihydroxy-2,2',3,4',5-pentachlorobiphenyl	C12H5Cl5O2	[415]
na	2',4-dihydroxy-2,3,3',4',5-pentachlorobiphenyl	C12H5Cl5O2	[415]
79755-43-4	3,5-dibromo-2-(2,4-dibromophenoxy)phenol	C12H6Br4O2	[415]
na	3-hydroxy-2',4,4',5-tetrachlorobiphenyl	C12H6Cl4O	[415]
na	4-hydroxy-3,3',4',5-tetrachlorobiphenyl	C12H6Cl4O	[415]
3380-34-5	5-chloro-2-(2,4-dichlorophenoxy)-phenol / triclosan	C12H7Cl3O2	[415]
na	4-hydroxy-2,2',3,3',4',5,5',6,6'-nonachlorobiphenyl	C12HCl9O	[415]
36313-15-2	tetrabromophenol	C6H2Br4O	[415]
1198-55-6	tetrachloro-2-hydroxyphenol	C6H2Cl4O2	[415]
58-90-2	2,3,4,6-tetrachlorophenol	C6H2Cl4O2	[415]
118-79-6	2,4,6-tribromophenol	C6H3Br3O	[415]
56961-20-7	3,4,5-trichloro-2-hydroxyphenol	C6H3Cl3O2	[415]
615-58-7	2,4-dibromophenol	C6H4Br2O	[415]
87-86-5	pentachlorophenol	C6HCl5O	[415]